15-095-30250

7-28s-6w

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

Company Pickrell Drilling Company Lease & Well No. Greenleaf #1-C

Elevation 1468 Derrick Floor Formation Kansas City Ticket Number 5892

Date Dec. 16, 1965 Sec. 7 Twp. 28 Range 6w County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Norman Allen

---

Formation Test No. 1 O.K. X Misrun Interval Tested From 3449' to 3470' Total Depth 3470'

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

Packer Depth 3445 Ft. Size 6 3/4 Packer Depth 3449 Ft. Size 6 3/4

Straddle Yes No no Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 4½ OD Tool Jt. Size 4½ FH Anchor Length 21 Ft. Size 4½ OD

RECORDERS Depth 3464 Ft. Clock No. 6897 Depth 3467 Ft. Clock No. 135

Top Make Kuster Cap. 3200 No. 1565 Inside [redacted] Outside Bottom Make Western Cap. 3400 No. 42 Inside [redacted] 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 12:48 A M

Tool Open I.F.P. From 12:50 M to 1:00 M Hr. 10 Min. From (B) 37 P.S.I. To (C) 37 P.S.I.

Tool Closed I.C.I.P. From 1:00 M. to 1:30 M. Hr. 30 Min. (D) 1403 P.S.I.

Tool Open F.F.P. From 1:30 M. to 2:30 M. 1 Hr. Min. From (E) 42 S.I. To (F) 53 P.S.I.

Tool Closed F.C.I.P. From 2:30 M. to 3:00A M. Hr. 30 Min. (G) 1264 P.S.I.

Initial Hydrostatic Pressure (A) 1839 P.S.I. Final Hydrostatic Pressure (H) 1824 P.S.I.

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

BLOW Weak 8 minutes. Flushed tool 2 times (Good surge) Bottom Choke Size 3/4 In.

Did Well Flow Yes No No Recovery Total Ft. 30' mud with few specks of oil in tool

Mud

Reversed Out Yes No No Mud Type starch Viscosity 42 Weight 10 Maximum Temp. 110 °F

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

Type Circ. Sub pin Did Tool Plug? no Where? Did Packer Hold? yes

Length Drill Pipe 2439 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 990 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date December 16, 1965 — Test Ticket No. 5892

Recorder No. 1565 — Capacity 3150 — Location 3464 Ft.

Clock No. 6897 — Elevation 1468 Derrick Floor — Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1839 P.S.I.	Opened Tool	12:48 A M	
B First Initial Flow Pressure	37 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	37 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	1403 P.S.I.	Second Flow Pressure	60 Mins.	57 Mins.
E Second Initial Flow Pressure	42 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	53 P.S.I.			
G Final Closed-in Pressure	1264 P.S.I.			
H Final Hydrostatic Mud	1824 P.S.I.			

PRESSURE BREAKDOWN

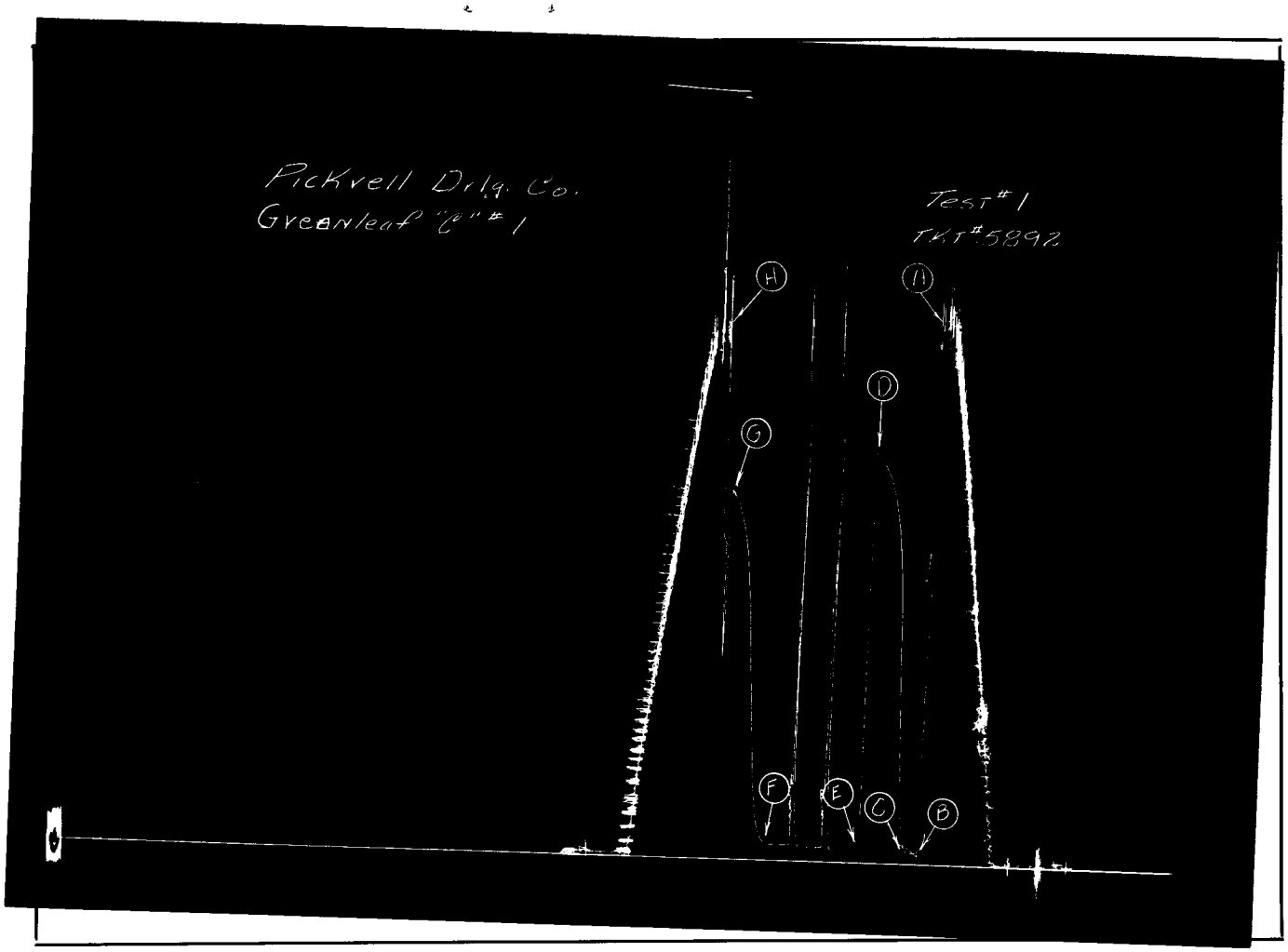
First Flow Press. Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure Breakdown: 11 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.

	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	37	0	37	0	42	0	53
P 2	5	37	3	86	5	42	3	70
P 3	10	37	6	318	10	42	6	111
P 4			9	993	15	42	9	242
P 5			12	1174	20	42	12	487
P 6			15	1271	25	47	15	825
P 7			18	1325	30	47	18	1067
P 8			21	1361	35	47	21	1153
P 9			24	1387	40	47	24	1216
P10			27	1403	45	53	27	1250
P11					50	53	30	1264
P12					55	53		
P13					57	53		
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	1839 PSI
(B)	First Initial Flow Pressure	37 PSI
(C)	First Final Flow Pressure	37 PSI
(D)	Initial Closed-in Pressure	1403 PSI
(E)	Second Initial Flow Pressure	42 PSI
(F)	Second Final Flow Pressure	53 PSI
(G)	Final Closed-in Pressure	1264 PSI
(H)	Final Hydrostatic Mud	1824 PSI

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Greenleaf #1-C

Elevation 1468 Derrick Floor Formation Mississippi Ticket Number 5277

Date Dec. 17, 1965 Sec. 7 Twp. 28 Range 6 County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

---

Formation Test No. 2 O.K. X Misrun Interval Tested From 3814' to 3830' Total Depth 3830'

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

Packer Depth 3809 Ft. Size 6 3/4 Packer Depth 3814 Ft. Size 6 3/4

Straddle Yes X No Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 16 Ft. Size 5½ OD

RECORDERS Depth 3823 Ft. Clock No. 5665 Depth 3826 Ft. Clock No. 155

Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 44 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 12:22A M

Tool Open I.F.P. From 12:25 M to 12:30 M Hr. 5 Min. From (B) 229 P.S.I. To (C) 217 P.S.I.

Tool Closed I.C.I.P. From 12:30 M. to 1:00 M. Hr. 30 Min. (D) 1447 P.S.I.

Tool Open F.F.P. From 1:00 M. to 2:00 M. 1 Hr. Min. From (E) 229 P.S.I. To (F) 158 P.S.I.

Tool Closed F.C.I.P. From 2:00 M. to 2:30 M. Hr. 30 Min. (G) 1246 P.S.I.

Initial Hydrostatic Pressure (A) 2044 P.S.I. Final Hydrostatic Pressure (H) 2012 P.S.I.

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

M.

M.

SEE ATTACHED SHEET M.

BLOW STRONG Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 110' gas cut mud; 60' muddy water

Mud

Reversed Out Yes X No Mud Type starch Viscosity 40 Weight 10.1 Maximum Temp. 112 °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 2620 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 36 ft.

Remarks

Gas to surface in 1½ minutes. Gauged 1,140,000

WESTERN

P. O. Box 793
GREAT BEND, KANSAS

Company Pickrell Drilling Company Lease & Well No. Greenleaf #1

Test No. 2 Interval Tested From 3814' To 3840'

Time	Max Press. P.S.I.	Description of Flow
5 min. P.F.	2 lbs	1,020,000
5 min. F.F.	2.5	1,140,000
10 "	2	1,020,000
20	1.5	887,000
30	1.5	887,000
40	1	734,000
50	1	734,000
60	1	734,000

Size Choke Surface 3/4 In. Bottom 3/4 In.

Remarks Gas to surface in 1½ minutes.

WHELAN PRINTERS, GREAT BEND, KS.

WESTERN TESTING CO., INC.
Pressure Data

Date December 17, 1965 — Test Ticket No. 5277

Recorder No. 1558 — Capacity 4200 — Location 3823 Ft.

Clock No. 5665 — Elevation 1468 Derrick Floor — Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2044 P.S.I.	Opened Tool	12:22A M	
B First Initial Flow Pressure	229 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	217 P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D Initial Closed-in Pressure	1447 P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E Second Initial Flow Pressure	229 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	158 P.S.I.			
G Final Closed-in Pressure	1246 P.S.I.			
H Final Hydrostatic Mud	2012 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	229
P 2 5	217
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 2 Min.

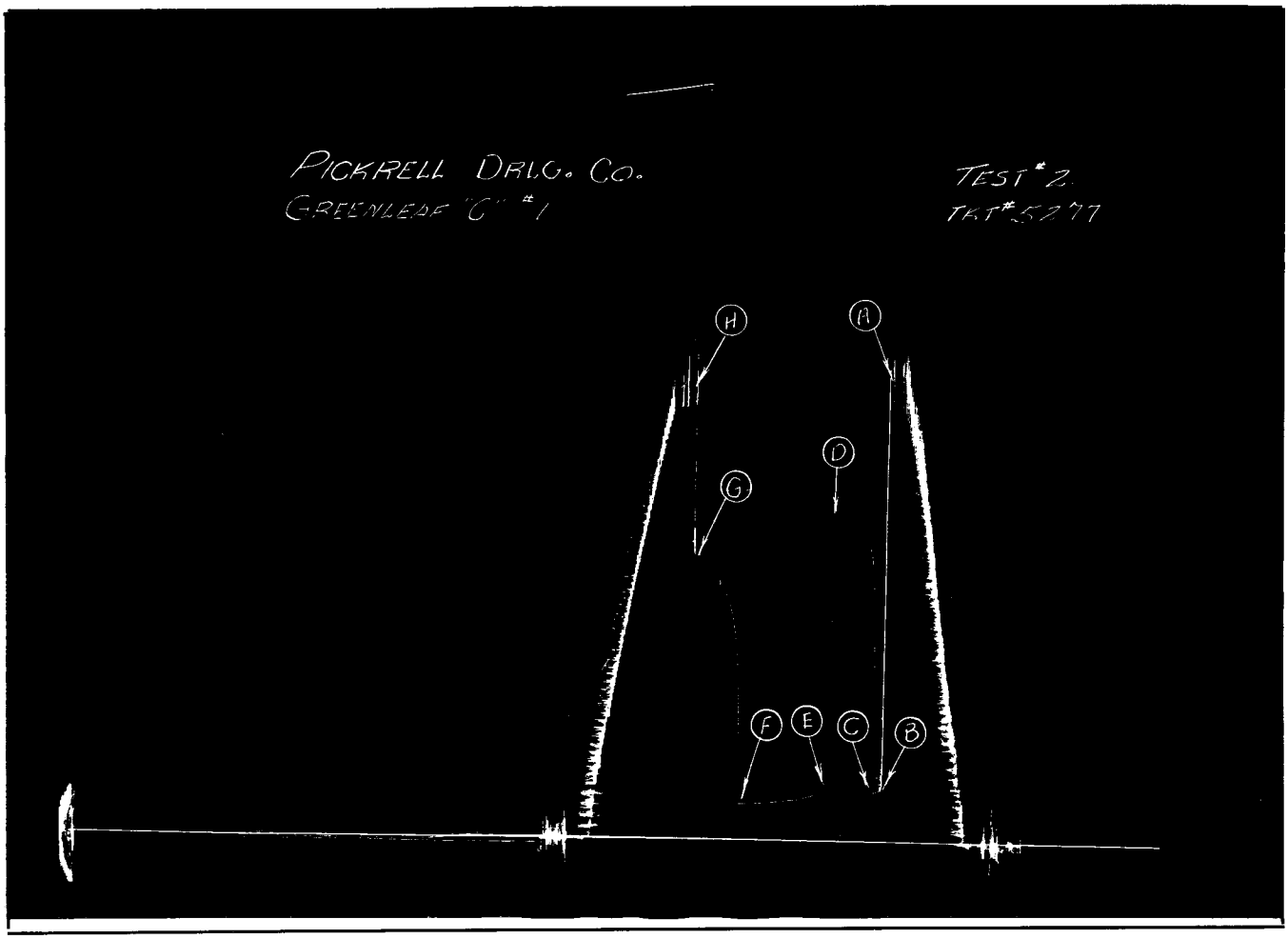
Point Minutes	Press.
0	217
3	776
6	1282
9	1357
12	1397
15	1416
18	1428
21	1434
24	1441
27	1445
29	1447

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	229
5	219
10	200
15	187
20	177
25	174
30	170
35	164
40	162
45	162
50	160
55	158

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

Point Minutes	Press.
0	158
3	660
6	908
9	1027
12	1096
15	1140
18	1177
21	1196
24	1215
27	1229
30	1246



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2044 PSI
(B)	First Initial Flow Pressure	229 PSI
(C)	First Final Flow Pressure	217 PSI
(D)	Initial Closed-in Pressure	1447 PSI
(E)	Second Initial Flow Pressure	229 PSI
(F)	Second Final Flow Pressure	158 PSI
(G)	Final Closed-in Pressure	1240 PSI
(H)	Final Hydrostatic Mud	2012 PSI

WESTERN

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Greenleaf #1-C

Elevation 1468 Derrick Floor Formation Mississippi Ticket Number 5278

Date Dec. 18, 1965 Sec. 7 Twp. 28 Range 6 County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

---

Formation Test No. 3 O.K. X Misrun Interval Tested From 3830' to 3845' Total Depth 3845'

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

Packer Depth 3825 Ft. Size 6 3/4 Packer Depth 3830 Ft. Size 6 3/4

Straddle Yes X No Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 15 Ft. Size 5½ OD

RECORDERS Depth 3839 Ft. Clock No. 5665 Depth 3842 Ft. Clock No. 112

Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 4 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 10:54 A M

Tool Open I.F.P. From 10:58 M to 11:07 M Hr. 9 Min. From (B) 50 P.S.I. To (C) 63 P.S.I.

Tool Closed I.C.I.P. From 11:07 M. to 11:37 M. Hr. 30 Min. (D) 1384 P.S.I.

Tool Open F.F.P. From 11:37 M. to 1:07 M. 1 Hr. 30 Min. From (E) 115 P.S.I. To (F) 376 P.S.I.

Tool Closed F.C.I.P. From 1:07 M. to 1:37 M. Hr. 30 Min. (G) 1252 P.S.I.

Initial Hydrostatic Pressure (A) 2059 P.S.I. Final Hydrostatic Pressure (H) 2031 P.S.I.

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

BLOW Good Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 60' gas cut mud. Very slightly oil cut; 150' gas cut mud with spots oil; 640' salt water Mud

Reversed Out Yes X No Mud Type starch Viscosity 50 Weight 10.1 Maximum Temp. 121 °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 2635 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 35 ft.

Remarks Gas to surface in one hour 15 minutes. Too small to measure.

WESTERN TESTING CO., INC.
Pressure Data

Date December 8, 1965 — Test Ticket No. 5278

Recorder No. 1558 — Capacity 4200 — Location 3839 Ft.

Clock No. 5665 — Elevation 1468 Derrick Floor — Well Temperature 121 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2059 P.S.I.	Opened Tool	10:54 M	
B	First Initial Flow Pressure	50 P.S.I.	First Flow Pressure	9 Mins.	9 Mins.
C	First Final Flow Pressure	63 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1384 P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E	Second Initial Flow Pressure	115 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	376 P.S.I.			
G	Final Closed-in Pressure	1252 P.S.I.			
H	Final Hydrostatic Mud	2031 P.S.I.			

PRESSURE BREAKDOWN

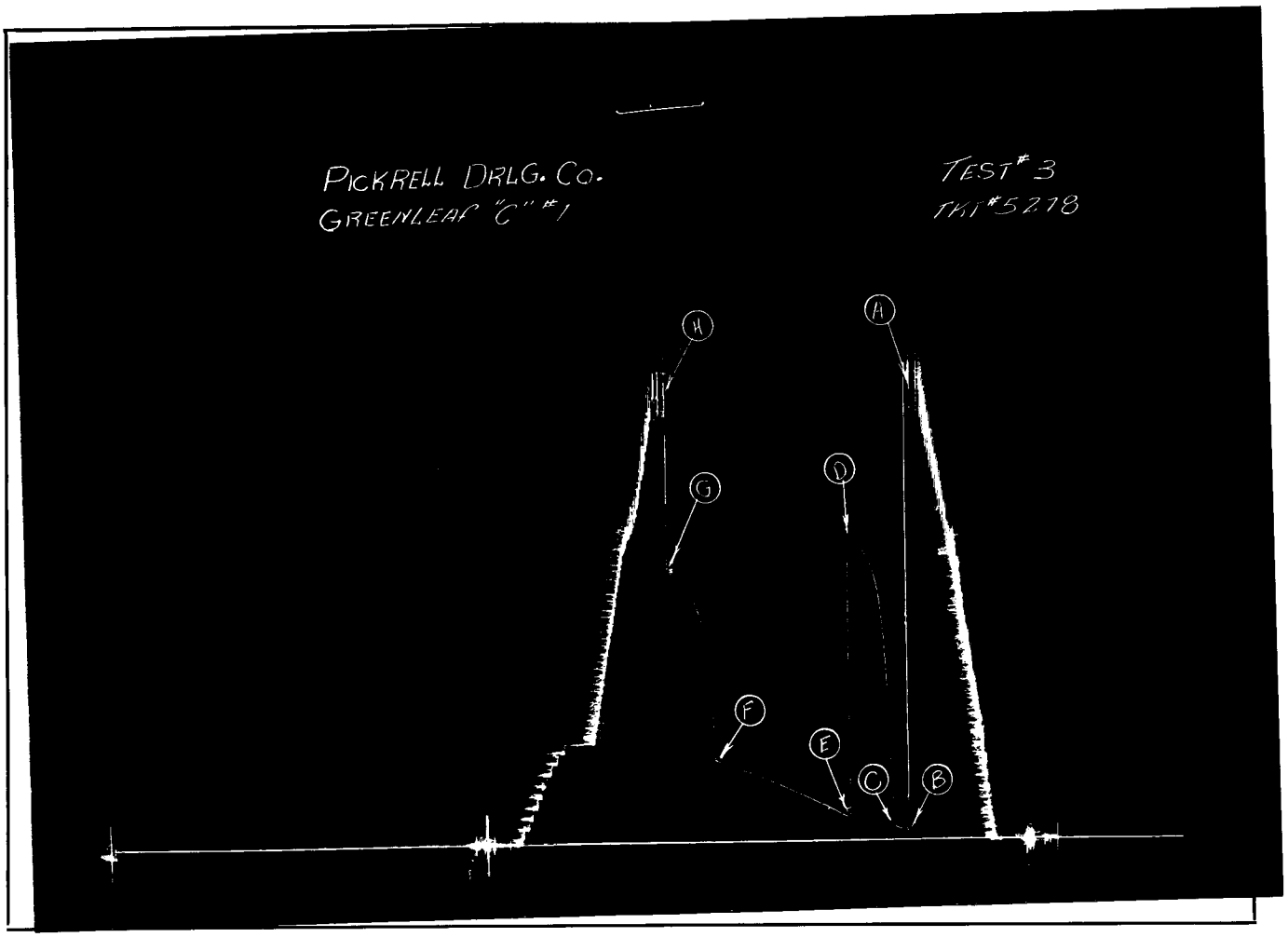
First Flow Press.
Breakdown: 1 Inc. of 5 mins. and a final inc. of 4 Min.

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

Second Flow Pressure
Breakdown: 17 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	First Flow Press. Mins.	First Flow Press. Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	50	0	63	0	115	0	376
P 2	5	54	3	333	5	122	3	718
P 3	9	63	6	808	10	143	6	924
P 4			9	916	15	162	9	1027
P 5			12	1110	20	179	12	1089
P 6			15	1227	25	196	15	1133
P 7			18	1280	30	213	18	1167
P 8			21	1321	35	232	21	1200
P 9			24	1346	40	248	24	1221
P10			27	1365	45	265	27	1240
P11			30	1384	50	280	30	1252
P12					55	295		
P13					60	312		
P14					65	322		
P15					70	337		
P16					75	350		
P17					80	362		
P18					85	376		
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2059 PSI
(B)	First Initial Flow Pressure	50 PSI
(C)	First Final Flow Pressure	63 PSI
(D)	Initial Closed-in Pressure	1384 PSI
(E)	Second Initial Flow Pressure	115 PSI
(F)	Second Final Flow Pressure	376 PSI
(G)	Final Closed-in Pressure	1252 PSI
(H)	Final Hydrostatic Mud	2031 PSI

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Greenleaf #1-C

Elevation 1468 Derrick Floor Formation Misener Ticket Number 5306

Date Dec. 21, 1965 Sec. 7 Twp. 28 Range 6 County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

---

Formation Test No. 4 O.K. x Misrun Interval Tested From 4181' to 4190' Total Depth 4190'

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

Packer Depth 4176 Ft. Size 6 3/4 Packer Depth 4181 Ft. Size 6 3/4

Straddle Yes X No Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 9 Ft. Size 5½ OD

RECORDERS Depth 4184 Ft. Clock No. 6861 Depth 4187 Ft. Clock No. 139

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Western Cap. 4000 No. 60 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 1:28 P M

Tool Open I.F.P. From 1:32 M to 1:38 M Hr. 6 Min. From (B) 27 P.S.I. To (C) 27 P.S.I.

Tool Closed I.C.I.P. From 1:38 M. to 2:08 M. Hr. 30 Min. (D) 27 P.S.I.

Tool Open F.F.P. From 2:08 M. to 2:58 M. Hr. 50 Min. From (E) 27 P.S.I. To (F) 27 P.S.I.

Tool Closed F.C.I.P. From 2:58 M. to 3:28 M. Hr. 30 Min. (G) 27 P.S.I.

Initial Hydrostatic Pressure (A) 2225 P.S.I. Final Hydrostatic Pressure (H) 2185 P.S.I.

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

BLOW Weak for six minutes. Died. Bottom Choke Size 3/4.

Did Well Flow Yes x No Recovery Total Ft. 15' mud with rainbow show oil.

Mud

Reversed Out Yes x No Mud Type starch Viscosity 47 Weight 10 Maximum Temp. 122 °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 2980 ft. I.D. Drill Pipe 3.8 Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 29 ft.

Remarks Open for F.F. No blow. Flushed tool 20 minutes; 25 minutes and 40 minutes. No blow.

WESTERN TESTING CO., INC.
Pressure Data

Date December 21, 1965 — Test Ticket No. 5306

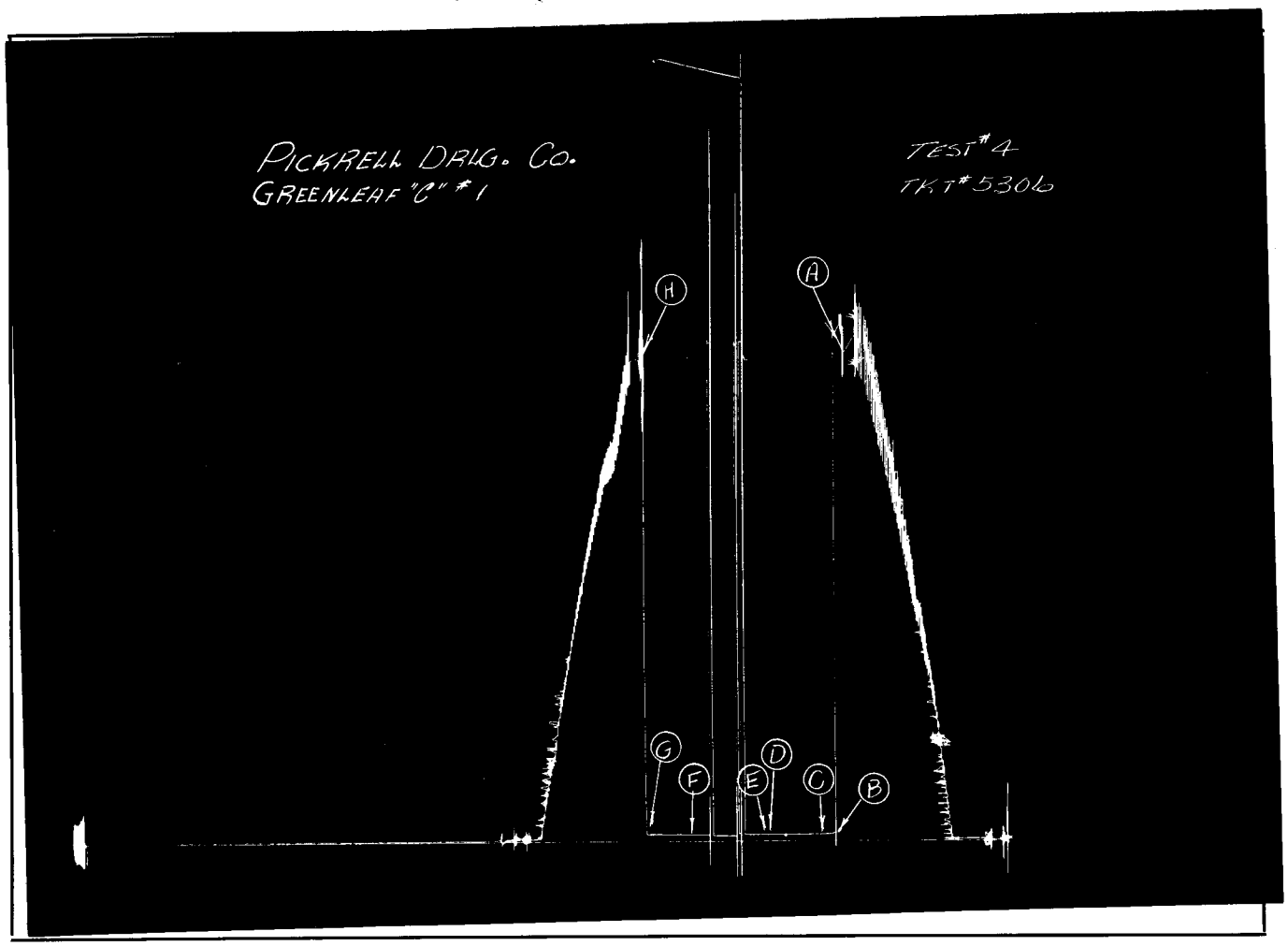
Recorder No. 1559 — Capacity 4200 — Location 4184 Ft.

Clock No. 6861 — Elevation 1468 Derrick Floor — Well Temperature 122 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2225	P.S.I.	Opened Tool	1:28 P	M		
B	First Initial Flow Pressure	27	P.S.I.	First Flow Pressure	6	Mins.	6	Mins.
C	First Final Flow Pressure	27	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	27	P.S.I.	Second Flow Pressure	50	Mins.	50	Mins.
E	Second Initial Flow Pressure	27	P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F	Second Final Flow Pressure	27	P.S.I.					
G	Final Closed-in Pressure	27	P.S.I.					
H	Final Hydrostatic Mud	2185	P.S.I.					

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 1 Inc.		Breakdown: 10 Inc.		Breakdown: 10 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 1 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1 0	27	0	27	0	27	0	27
P 2 5	27	3	27	5	27	3	27
P 3 6	27	6	27	10	27	6	27
P 4		9	27	15	27	9	27
P 5		12	27	20	27	12	27
P 6		15	27	25	27	15	27
P 7		18	27	30	27	18	27
P 8		21	27	35	27	21	27
P 9		24	27	40	27	24	27
P10		27	27	45	27	27	27
P11		30	27	50	27	30	27
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2225 PSI
(B)	First Initial Flow Pressure	27 PSI
(C)	First Final Flow Pressure	27 PSI
(D)	Initial Closed-in Pressure	27 PSI
(E)	Second Initial Flow Pressure	27 PSI
(F)	Second Final Flow Pressure	27 PSI
(G)	Final Closed-in Pressure	27 PSI
(H)	Final Hydrostatic Mud	2185 PSI

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Greenleaf #1-C

Elevation 1468 Derrick Floor Formation Viola Ticket Number 5307

Date Dec.22,1965 Sec. 7 Twp. 28 Range 6 County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

---

Formation Test No. 5 O.K. X Misrun Interval Tested From 4190' to 4211' Total Depth 4211'

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

Packer Depth 4185 Ft. Size 6 3/4 Packer Depth 4190 Ft. Size 6 3/4

Straddle Yes X No Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 21 Ft. Size 5½ OD

RECORDERS Depth 4204 Ft. Clock No. 6861 Depth 4207 Ft. Clock No. 139

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Western Cap. 4000 No. 60 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 M

Tool Open I.F.P. From 8:57 M to 9:05 M Hr. 8 Min. From (B) 50 P.S.I. To (C) 52 P.S.I.

Tool Closed I.C.I.P. From 9:05 M. to 9:35 M. Hr. 30 Min. (D) 1567 P.S.I.

Tool Open F.F.P. From 9:35 M. to 10:35 M. 1 Hr. Min. From (E) 81 P.S.I. To (F) 246 P.S.I.

Tool Closed F.C.I.P. From 10:35 M. to 11:05 M. Hr. 30 Min. (G) 1479 P.S.I.

Initial Hydrostatic Pressure (A) 2246 P.S.I. Final Hydrostatic Pressure (H) 2236 P.S.I.

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

BLOW Weak to strong. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 485' total; 235' muddy water; 250' slightly salty water. No show. Mud

Reversed Out Yes X No Mud Type starch Viscosity 60 Weight 10.1 Maximum Temp. 139 °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 2911 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date December 22, 1965 — Test Ticket No. 5307

Recorder No. 1559 — Capacity 4200 — Location 4204 ft.

Clock No. 6901 — Elevation 1468 Derrick Floor — Well Temperature 139 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2246 P.S.I.	Opened Tool	8:55 A M	
B First Initial Flow Pressure	50 P.S.I.	First Flow Pressure	8 Mins.	8 Mins.
C First Final Flow Pressure	52 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1567 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	81 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	246 P.S.I.			
G Final Closed-in Pressure	1479 P.S.I.			
H Final Hydrostatic Mud	2236 P.S.I.			

PRESSURE BREAKDOWN

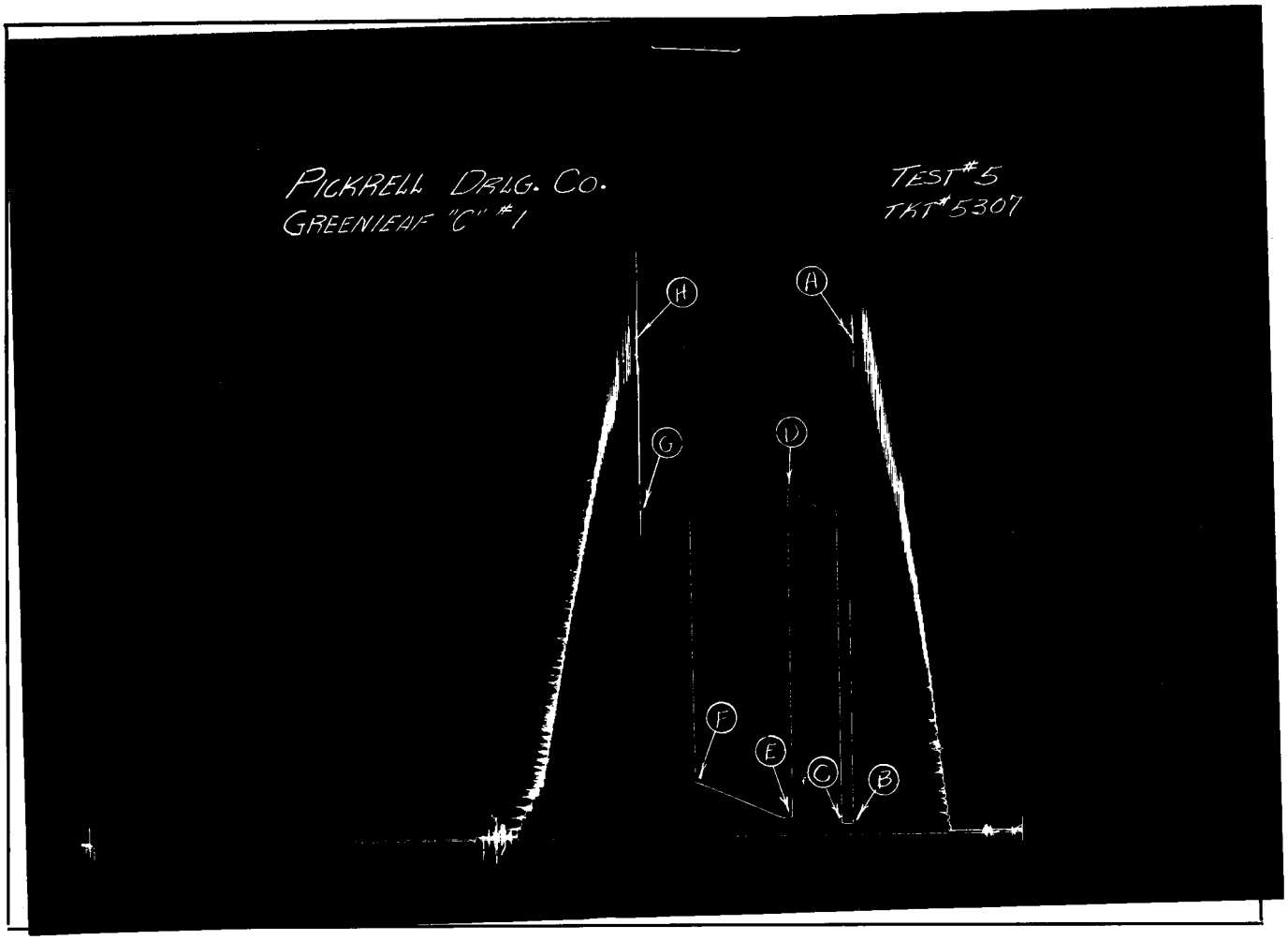
First Flow Press. Breakdown: 1 Inc. of 5 mins. and a final inc. of 3 Min.

Initial Shut-In Breakdown: 11 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: 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	0	50	0	52	0	81	0	246
P 2	5	50	3	1221	5	83	3	1035
P 3	8	52	6	1476	10	91	6	1474
P 4			9	1479	15	108	9	1479
P 5			12	1481	20	125	12	1479
P 6			15	1483	25	142	15	1479
P 7			18	1495	30	158	18	1479
P 8			21	1508	35	171	21	1479
P 9			24	1521	40	188	24	1479
P10			27	1535	45	204	27	1479
P11			30	1550	50	221	30	1479
P12			33	1567	55	236	33	1479
P13	We feel that after first 18 minutes of Int. Shut-in				60	246		
P14	is a false reading., due to movement of tool during							
P15	this period.							
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2246 PSI
(B)	First Initial Flow Pressure	50 PSI
(C)	First Final Flow Pressure	52 PSI
(D)	Initial Closed-in Pressure	1567 PSI
(E)	Second Initial Flow Pressure	81 PSI
(F)	Second Final Flow Pressure	240 PSI
(G)	Final Closed-in Pressure	1479 PSI
(H)	Final Hydrostatic Mud	2236 PSI