WESTERN TESTERS

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

Company Pickrell Drlg. Co. Lease & Well No. Early B#2

Elevation 1464 Kelly Bushing Formation Kansas City Effective Pay 5 Ft. Ticket No. 10119

Date 1-30-68 Sec. 4 Twp. 30 Range 7 County Kingman State Kansas

Test Approved by Dan Bowles Western Representative Leon Elmore

Formation Test No. 1 O.K. X Misrun Interval Tested From 3682' to 3690' Total Depth 3690'

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 3677 Ft. Size 6 3/4" Packer Depth 3682 Ft. Size 6 3/4"

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 8 Ft. Size 5½"OD

RECORDERS Depth 3673 Ft. Clock No. 6799 Depth 3686 Ft. Clock No. 6897

Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 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 5:34 A. M

Tool Open I.F.P. From 5:36 M. to 5:46 A M. Hr. 10 Min. From (B) 19 P.S.I. To (C) 45 P.S.I.

Tool Closed I.C.I.P. From 5:46 M. to 6:16 A M. Hr. 30 Min. (D) 1025 P.S.I.

Tool Open F.F.P. From 6:16 M. to 7:46 A M. 1 Hr. 30 Min. From (E) 76 P.S.I. To (F) 282 P.S.I.

Tool Closed F.C.I.P. From 7:46 M. to 8:46 A M. 1 Hr. -- Min. (G) 945 P.S.I.

Initial Hydrostatic Pressure (A) 1997 P.S.I. Final Hydrostatic Pressure (H) 1981 P.S.I.

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

BLOW Good throughout. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 377 feet oil cut muddy water; 186 feet slightly oil cut water; 30 310 feet Gas in Pipe.

Reversed Out Yes X No Mud Type Starch Viscosity 45 Weight 10.2 Water Loss 10 cc. Maximum Temp. 118 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 2721 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 936 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 1-30-68 Test Ticket No. 10119

Recorder No. 3985 Capacity 4500 Location 3673 Ft.

Clock No. 6799 Elevation 1464 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1997 P.S.I.	Opened Tool	5:34 A. M	
B First Initial Flow Pressure	19 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	45 P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D Initial Closed-in Pressure	1025 P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E Second Initial Flow Pressure	76 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	282 P.S.I.			
G Final Closed-in Pressure	945 P.S.I.			
H Final Hydrostatic Mud	1981 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 00 Min.

Point Mins.	Press.
P 1 0	19
P 2 5	21
P 3 10	45
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.

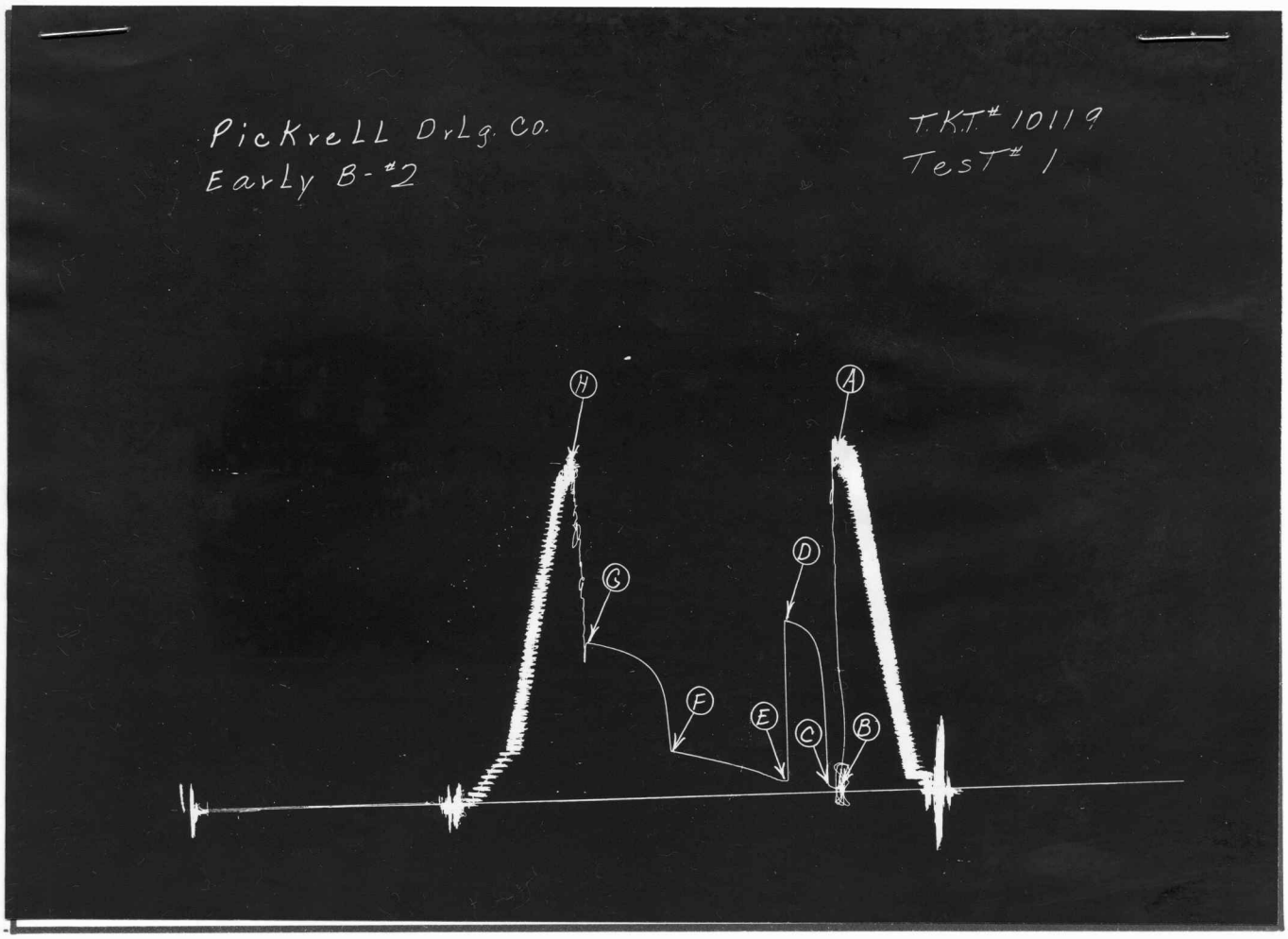
Point Minutes	Press.
0	45
3	697
6	876
9	927
12	962
15	983
18	997
21	1006
24	1016
27	1023
29	1025

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 00 Min.

Point Minutes	Press.
0	76
5	78
10	95
15	112
20	131
25	150
30	162
35	176
40	191
45	200
50	212
55	224
60	235
65	246
70	258
75	265
80	274
85	282

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 00 Min.

Point Minutes	Press.
0	282
3	588
6	678
9	732
12	769
15	792
18	813
21	832
24	843
27	857
30	867
33	878
36	888
39	897
42	902
45	910
48	918
51	925
54	932
57	940
60	943



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1995	1997	PSI
(B)	First Initial Flow Pressure	18	19	PSI
(C)	First Final Flow Pressure	42	45	PSI
(D)	Initial Closed-in Pressure	1025	1025	PSI
(E)	Second Initial Flow Pressure	71	76	PSI
(F)	Second Final Flow Pressure	274	282	PSI
(G)	Final Closed-in Pressure	932	945	PSI
(H)	Final Hydrostatic Mud	1983	1981	PSI

COMPANY Pickrell Drlg. Co. LEASE AND WELL NO. Early # 2 SEC. 4 TWP. 30 RGE. 7 TEST NO. 1 DATE 1-30-68

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

Company Pickrell Drlg. Co. Lease & Well No. Early B#2

Elevation 1467 Kelly Bushing Formation Kansas City Effective Pay 6 Ft. Ticket No. 10120

Date 1-30-68 Sec. 4 Twp. 30 Range 7 County Kingman State Kansas

Test Approved by Dan Bowles Western Representative Leon Elmore

Formation Test No. 2 O.K. x Misrun x Interval Tested From 3700' to 3720' Total Depth 3720'

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 3695 Ft. Size 6 3/4 Packer Depth 3700 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 20 Ft. Size 5½"OD

RECORDERS Depth 3713 Ft. Clock No. 6897 Depth 3716 Ft. Clock No. 6799

Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 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 6:35 P. M

Tool Open I.F.P. From 6:37 M. to 6:47 P M. Hr. 10 Min. From (B) 11 P.S.I. To (C) 16 P.S.I.

Tool Closed I.C.I.P. From 6:47 M. to 7:17 P M. Hr. 30 Min. (D) 1479 P.S.I.

Tool Open F.F.P. From 7:17 M. to 8:47 P M. 1 Hr. 30 Min. From (E) 26 P.S.I. To (F) 62 P.S.I.

Tool Closed F.C.I.P. From 8:47 M. to 9:47 P M. 1 Hr. -- Min. (G) 1478 P.S.I.

Initial Hydrostatic Pressure (A) 1989 P.S.I. Final Hydrostatic Pressure (H) 1977 P.S.I.

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

BLOW weak. Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 110 feet muddy water.

Reversed Out Yes x No Mud Type starch Viscosity 45 Weight 10.2 Water Loss 6 cc. Maximum Temp. 117 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size 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 936 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 40 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 1-30-68 Test Ticket No. 10120

Recorder No. 3085 Capacity 4500 Location 3713 Ft.

Clock No. 6897 Elevation 1467 Kelly Bushing Well Temperature 117 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1989	P.S.I.	Opened Tool	6:35 P. M	
B	First Initial Flow Pressure	11	P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	16	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1479	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	26	P.S.I.	Final Closed-in Pressure	60 Mins.	59 Mins.
F	Second Final Flow Pressure	62	P.S.I.			
G	Final Closed-in Pressure	1478	P.S.I.			
H	Final Hydrostatic Mud	1977	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	11
P 2 5	13
P 3 10	16
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: 10 Inc.
of 3 mins. and a
final inc. of -- Min.

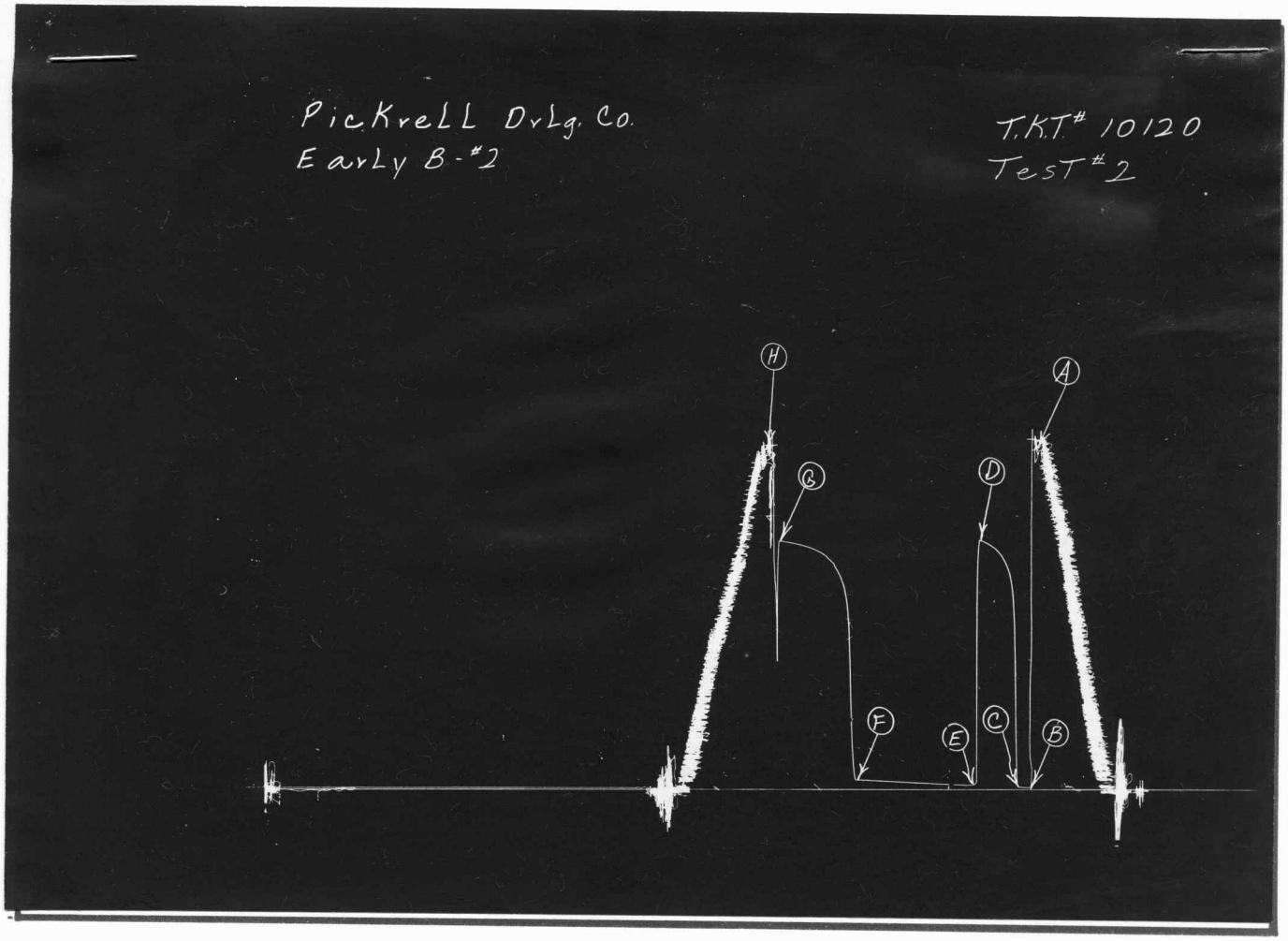
Point Minutes	Press.
0	16
3	773
6	1217
9	1314
12	1370
15	1404
18	1430
21	1448
24	1462
27	1472
30	1479

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of -- Min.

Point Minutes	Press.
0	26
5	26
10	27
15	28
20	30
25	32
30	35
35	37
40	40
45	42
50	45
55	48
60	51
65	52
70	54
75	57
80	59
85	61
90	62

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 2 Min.

Point Minutes	Press.
0	62
3	298
6	874
9	1168
12	1251
15	1305
18	1351
21	1372
24	1395
27	1411
30	1423
33	1435
36	1442
39	1448
42	1455
45	1462
48	1467
51	1472
54	1475
57	1477
59	1478



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2006	1989	PSI
(B)	First Initial Flow Pressure	11	11	PSI
(C)	First Final Flow Pressure	11	16	PSI
(D)	Initial Closed-in Pressure	1476	1479	PSI
(E)	Second Initial Flow Pressure	23	26	PSI
(F)	Second Final Flow Pressure	59	62	PSI
(G)	Final Closed-in Pressure	1476	1478	PSI
(H)	Final Hydrostatic Mud	1983	1977	PSI

COMPANY Pickrell Drlg. co. LEASE AND WELL NO. Early B#2 SEC. 4 TWP. 30 RGE. 7 TEST NO. 2 DATE 1-30-68

WESTERN TESTERS

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

Company Pickrell Drlg. Co. Lease & Well No. Early B#2

Elevation 1467 Kelly Bushing Formation Mississippian Effective Pay Ft. Ticket No. 7980

Date 2-1-68 Sec. 4 Twp. 30s Range 7w County Kingman State Kansas

Test Approved by F.Judson Hipps Western Representative George Tew

Formation Test No. 3 O.K. x Misrun Interval Tested From 4080' to 4135' Total Depth 4135'

Size Main Hole 7 7/8" Rat Hole none Conv. B.T. x Damaged Yes x No Conv. x B.T. Damaged Yes x No

Packer Depth 4080 Ft. Size 6 3/4 Packer Depth 4075 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 55 Ft. Size 24' 5½"OD Anchor 31' 6 3/4"OD.-D.C.

RECORDERS Depth 4095 Ft. Clock No. 6896 Depth 4098 Ft. Clock No. 6866

Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 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 7:17 P. M

Tool Open I.F.P. From 7:20 M. to 7:25 P M. Hr. 5 Min. From (B) 92 P.S.I. To (C) 92 P.S.I.

Tool Closed I.C.I.P. From 7:25 M. to 7:55 P M. Hr. 30 Min. (D) 986 P.S.I.

Tool Open F.F.P. From 7:55 M. to 8:55 P M. 1 Hr. -- Min. From (E) 97 P.S.I. To (F) 136 P.S.I.

Tool Closed F.C.I.P. From 8:55 M. to 9:25 P M. Hr. 30 Min. (G) 934 P.S.I.

Initial Hydrostatic Pressure (A) 2192 P.S.I. Final Hydrostatic Pressure (H) 2179 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
	(SEE ATTACHED SHEET)		M.	
			M.	
			M.	

BLOW Strong - gas to surface in 4 minutes. Bottom Choke Size 3/4 In.

Did Well Flow x Yes No Recovery Total Ft. 310 feet total:

250 feet thin mud;

60 feet muddy water.

Reversed Out Yes x No Mud Type starch Viscosity 42 Weight 10.1 Water Loss cc. Maximum Temp. 122 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 3190 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 75 ft.

Remarks

WESTERN TESTERS

P. O. BOX 793
GREAT BEND, KANSAS

COMPANY Pickrell Drlg. Co. LEASE & WELL NO. Early B#2

TEST NO. 3 INTERVAL TESTED FROM 4080' TO 4135'

TIME PRE-FLOW	MAX PRESS. P.S.I. Ins. of water	DESCRIPTION OF FLOW
5	6.5	355,000
10	6.5	355,000
20	6.5	355,000
30	6.5	355,000
40	6.5	355,000
50	6.5	355,000
SECOND FLOW		
60	6.5	355,000

SIZE CHOKE _____ SURFACE 3/4 == IN. _____ BOTTOM 3/4 IN. _____

REMARKS Gas to surface in 4 minutes.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-1-68 Test Ticket No. 7980

Recorder No. 3086 Capacity 4500 Location 4095 Ft.

Clock No. 6896 Elevation 1467 Kelly Bushing Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2192	P.S.I.	Opened Tool	7:17 P. M	
B	First Initial Flow Pressure	92	P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	92	P.S.I.	Initial Closed-in Pressure	30 Mins.	31 Mins.
D	Initial Closed-in Pressure	986	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	97	P.S.I.	Final Closed-in Pressure	30 Mins.	31 Mins.
F	Second Final Flow Pressure	136	P.S.I.			
G	Final Closed-in Pressure	934	P.S.I.			
H	Final Hydrostatic Mud	2179	P.S.I.			

PRESSURE BREAKDOWN

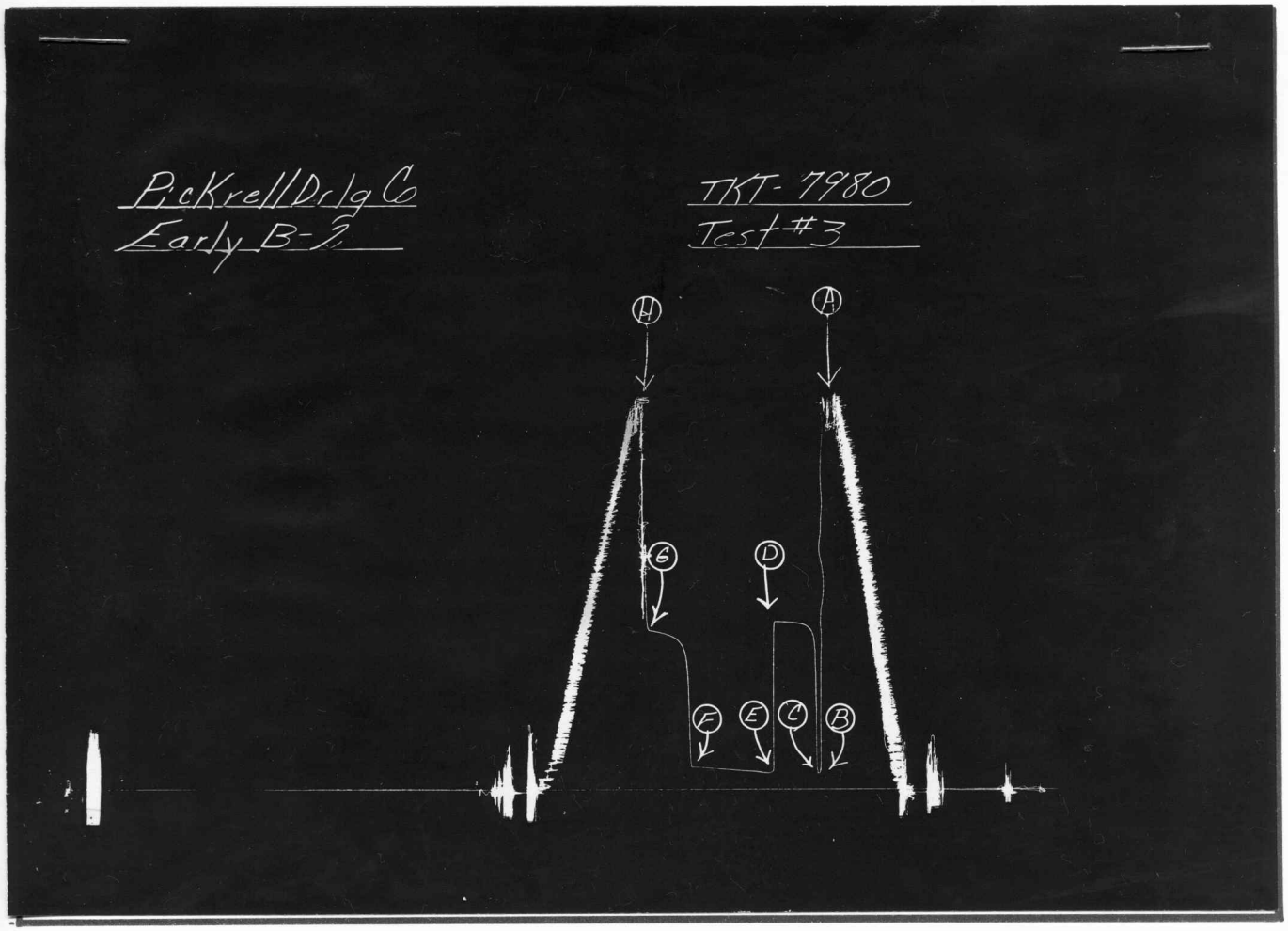
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of -- Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 1 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of -- Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	92	0	92	0	97	0	136
P 2 5	92	3	571	5	99	3	464
P 3		6	867	10	101	6	706
P 4		9	941	15	105	9	822
P 5		12	965	20	109	12	867
P 6		15	974	25	112	15	892
P 7		18	978	30	116	18	904
P 8		21	981	35	120	21	913
P 9		24	983	40	125	24	920
P10		27	986	45	127	27	927
P11		30	986	50	130	30	932
P12		31	986	55	133	31	934
P13				60	136		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2187	2192	PSI
(B)	First Initial Flow Pressure	94	92	PSI
(C)	First Final Flow Pressure	94	92	PSI
(D)	Initial Closed-in Pressure	986	986	PSI
(E)	Second Initial Flow Pressure	94	97	PSI
(F)	Second Final Flow Pressure	142	136	PSI
(G)	Final Closed-in Pressure	939	934	PSI
(H)	Final Hydrostatic Mud	2177	2179	PSI

COMPANY Pickrell Drlg. Co. LEASE AND WELL NO. Early B#2 SEC. 4 TWP. 30s RGE. 7w TEST NO. 3 DATE 2-1-68

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

Company Pickrell Drlg. Co. Lease & Well No. Early B#2

Elevation 1467 Kelly Bushing Formation Simpson Effective Pay Ft. Ticket No. 7981

Date 2-3-68 Sec. 4 Twp. 30s Range 7w County Kingman State Kansas

Test Approved by F. Judson Hipps Western Representative George Tew

Formation Test No. 4 O.K. x Misrun Interval Tested From 4477' to 4488' Total Depth 4488'

Size Main Hole 7 7/8" Rat Hole none Conv. B.T. x Damaged Yes x No Conv. x B.T. Damaged Yes x No

Packer Depth 4477 Ft. Size 6 3/4 Packer Depth 4472 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 11 Ft. Size 5½"OD

RECORDERS Depth 4481 Ft. Clock No. 6866 Depth 4484 Ft. Clock No. 6896

Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 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 9:32 P. M

Tool Open I.F.P. From 9:35 M. to 9:40 P M. Hr. 5 Min. From (B) 7 P.S.I. To (C) 7 P.S.I.

Tool Closed I.C.I.P. From 9:40 M. to 10:10 P M. Hr. 30 Min. (D) 1580 P.S.I.

Tool Open F.F.P. From 10:10 M. to 11:10 P M. 1 Hr. -- Min. From (E) 23 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 11:10 M. to 11:40 P M. Hr. 30 Min. (G) 1531 P.S.I.

Initial Hydrostatic Pressure (A) 2355 P.S.I. Final Hydrostatic Pressure (H) 2336 P.S.I.

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

BLOW Good throughout Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 90 feet very slightly oil and gas cut mud; 990 feet gas in pipe.

Reversed Out Yes x No Mud Type starch Viscosity 44 Weight 10.1 Water Loss cc. Maximum Temp. 137 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 3587 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 31 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 2-3-68 | Test Ticket No. 7981

Recorder No. 3086 | Capacity 4500 | Location 4481 Ft.

Clock No. 6866 | Elevation 1467 Kelly Bushing | Well Temperature 137 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2355 P.S.I.	Opened Tool	9:32 P.M	
B First Initial Flow Pressure	7 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	7 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1580 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	23 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	40 P.S.I.			
G Final Closed-in Pressure	1531 P.S.I.			
H Final Hydrostatic Mud	2336 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	7
P 2 5	7
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: 10 Inc. of 3 mins. and a final inc. of -- Min.

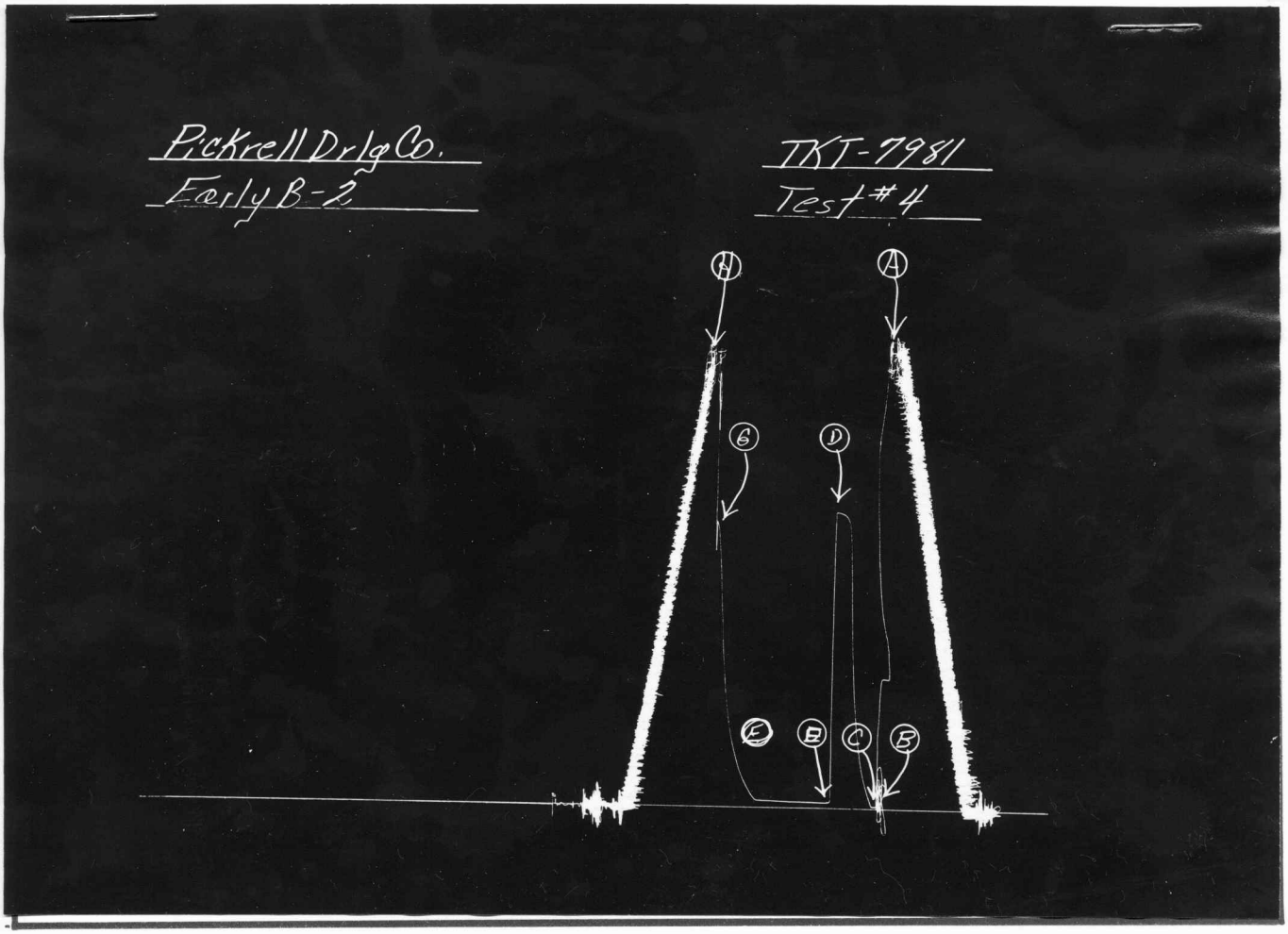
Point Minutes	Press.
0	7
3	52
6	120
9	206
12	345
15	563
18	1027
21	1488
24	1557
27	1573
30	1580

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of -- Min.

Point Minutes	Press.
0	23
5	24
10	26
15	28
20	30
25	31
30	33
35	35
40	36
45	37
50	38
55	39
60	40

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

Point Minutes	Press.
0	40
3	73
6	118
9	166
12	228
15	311
18	421
21	566
24	823
27	1317
30	1531



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2357	2355	PSI
(B)	First Initial Flow Pressure	11	7	PSI
(C)	First Final Flow Pressure	11	7	PSI
(D)	Initial Closed-in Pressure	1555	1580	PSI
(E)	Second Initial Flow Pressure	23	23	PSI
(F)	Second Final Flow Pressure	35	40	PSI
(G)	Final Closed-in Pressure	1503	1531	PSI
(H)	Final Hydrostatic Mud	2348	2336	PSI

COMPANY Pickrell Drlg. Co. LEASE AND WELL NO. Early # B#2 SEC. 4 TWP. 30s RGE. 7w TEST NO. 4 DATE 2-3-68

WESTERN TESTERS

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

Company Pickrell Drlg. Co. Lease & Well No. Early B#2

Elevation 1467 Kelly Bushing Formation Simpson Effective Pay Ft. Ticket No. 7982

Date 2-4-68 Sec. 4 Twp. 30s Range 7w County Kingman State Kansas

Test Approved by F. Judson Hipps Western Representative George Tew

Formation Test No. 5 O.K. X Misrun Interval Tested From 4485' to 4496' Total Depth 4496'

Size Main Hole 7 7/8" Rat Hole none Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 4485 Ft. Size 6 3/4 Packer Depth 4480 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 11 Ft. Size 5½"OD

RECORDERS Depth 4481 Ft. Clock No. 6896 Depth 4492 Ft. Clock No. 6866

Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 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 8:57 A. M

Tool Open I.F.P. From 9:00 M. to 9:05 A M. Hr. 5 Min. From (B) 28 P.S.I. To (C) 23 P.S.I.

Tool Closed I.C.I.P. From 9:05 M. to 9:35 A M. Hr. 30 Min. (D) 1594 P.S.I.

Tool Open F.F.P. From 9:35 M. to 11:35 A M. 2 Hr. -- Min. From (E) 37 P.S.I. To (F) 151 P.S.I.

Tool Closed F.C.I.P. From 11:35 M. to 12:35 P M. 1 Hr. -- Min. (G) 1582 P.S.I.

Initial Hydrostatic Pressure (A) 2379 P.S.I. Final Hydrostatic Pressure (H) 2368 P.S.I.

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

BLOW Weak increasing to fair. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 330 feet total: 90 feet oil and gas cut mud; 90 feet thin oil and gas cut mud; 150 feet muddy water; 1490 feet gas in pipe.

Reversed Out Yes X No Mud Type starbh Viscosity 44 Weight 10.1 Water Loss cc. Maximum Temp. 137 °F

Type Circ. Sub. plug Did Tool Plug? Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? Where?

Length Drill Pipe 3595 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 31 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 2-4-68 Test Ticket No. 7982

Recorder No. 3086 Capacity 4500 Location 4481 Ft.

Clock No. 6896 Elevation 1467 Kelly Bushing Well Temperature 137 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2379 P.S.I.	Opened Tool	8:57 A.M.	8:57 A.M.
B First Initial Flow Pressure	28 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	23 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1594 P.S.I.	Second Flow Pressure	120 Mins.	117 Mins.
E Second Initial Flow Pressure	37 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	151 P.S.I.			
G Final Closed-in Pressure	1582 P.S.I.			
H Final Hydrostatic Mud	2368 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	28
P 2 5	23
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: 10 Inc.
of 3 mins. and a
final inc. of -- Min.

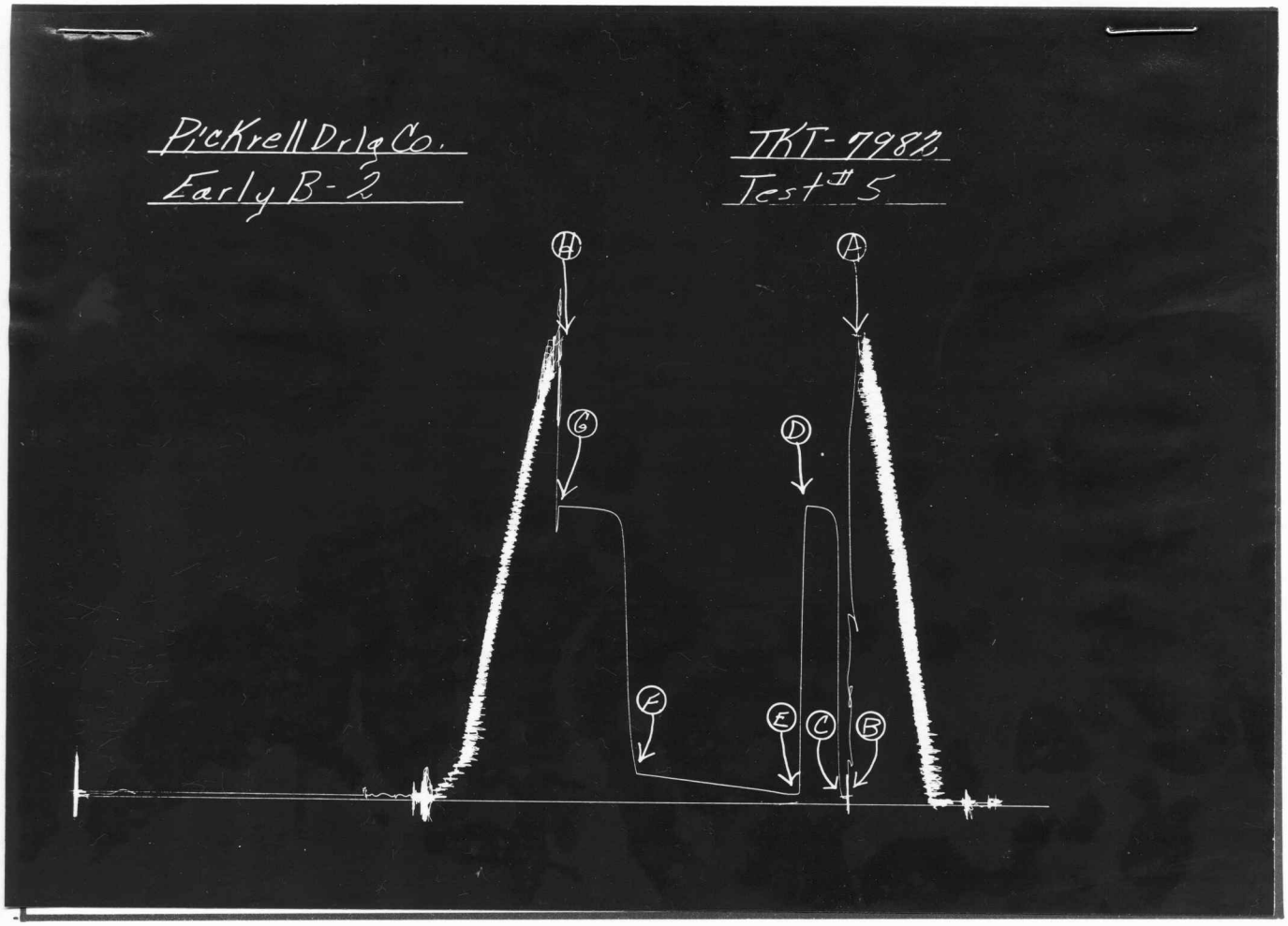
Point Minutes	Press.
0	23
3	163
6	890
9	1439
12	1548
15	1575
18	1582
21	1587
24	1589
27	1592
30	1594

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

Point Minutes	Press.
0	37
5	40
10	44
15	51
20	59
25	63
30	68
35	74
40	79
45	85
50	89
55	94
60	99
65	104
70	108
75	113
80	117
85	123
90	127
95	132
100	135
105	142
110	146
115	149
117	131

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

Point Minutes	Press.
0	151
3	286
6	450
9	860
12	1371
15	1506
18	1541
21	1555
24	1562
27	1566
30	1569
33	1573
36	1575
39	1576
42	1578
45	1579
48	1580
51	1581
54	1582
57	1582
60	1582



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2382	2379	PSI
(B)	First Initial Flow Pressure	15	28	PSI
(C)	First Final Flow Pressure	15	23	PSI
(D)	Initial Closed-in Pressure	1595	1594	PSI
(E)	Second Initial Flow Pressure	35	37	PSI
(F)	Second Final Flow Pressure	146	151	PSI
(G)	Final Closed-in Pressure	1578	1582	PSI
(H)	Final Hydrostatic Mud	2375	2368	PSI

COMPANY Pickrell Drlg. Co. LEASE AND WELL NO. Early B#2 SEC. 4 TWP. 30s RGE. 7w TEST NO. 5 DATE 2-4-68