WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

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

Elevation 2060 Kelly Bushings Formation Topeka Effective Pay ------ Ft. Ticket No. 8673

Date Aug.7,1967 Sec. 5 Twp. 11s Range 16w County Ellis State Kansas

Test Approved by Al. Lukken Western Representative Kenneth Cheney

Formation Test No. 1 O.K. x Misrun ____ Interval Tested From 3029' to 3042' Total Depth 3042'

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 3025 Ft. Size 6 3/4 Packer Depth 3029 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 13 Ft. Size 5½ OD

RECORDERS Depth 3035 Ft. Clock No. 6860 Depth 3037 Ft. Clock No. 8376

Top Make Kuster Cap. 4150 No. 2608 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 1558 ~~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 4:19 A M

Tool Open I.F.P. From 4:20 M. to 4:30 M. Hr. 10 Min. From (B) ----- P.S.I. To (C) ----- P.S.I.

Tool Closed I.C.I.P. From 4:30 M. to 5:00 M. Hr. 30 Min. (D) 1111 P.S.I.

Tool Open F.F.P. From 5:00 M. to 7:00 M. 2 Hr. Min. From (E) 124 P.S.I. To (F) 127 P.S.I.

Tool Closed F.C.I.P. From 7:00 M. to 8:00 M. 1 Hr. Min. (G) 996 P.S.I.

Initial Hydrostatic Pressure (A) 1765 P.S.I. Final Hydrostatic Pressure (H) 1741 P.S.I.

SURFACE INFORMATION	Size Choke 3/8 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak throughout test. Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 210' muddy water.

Reversed Out ____ Yes X No Mud Type starch Viscosity 42 Weight 10.2 Water Loss ---- cc. Maximum Temp. 103 °F

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

Type Circ. Sub. plug Did Tool Plug? partially Where? ____ Did Packer Hold? yes

Length Drill Pipe 2409 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 600 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 33 ft. Failed to blow after opening tool on final

Remarks flow so we flushed tool and it started to blowing. Had 8' caveing in hole.

WESTERN TESTING CO., INC.
Pressure Data

Date August 7,1967 Test Ticket No. 8673

Recorder No. 2608 Capacity 4150 Location 3035 Ft.

Clock No. 6860 Elevation 2060 Kelly Bushings Well Temperature 103 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1765 P.S.I.		Opened Tool	4:19 A M	
B	First Initial Flow Pressure	----- P.S.I.		First Flow Pressure	10 Mins.	--- Mins.
C	First Final Flow Pressure	---- P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1111 P.S.I.		Second Flow Pressure	120 Mins.	119 Mins.
E	Second Initial Flow Pressure	124 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	127 P.S.I.				
G	Final Closed-in Pressure	996 P.S.I.				
H	Final Hydrostatic Mud	1741 P.S.I.				

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: ____ Inc.
of ____ mins. and a
final inc. of ____ Min.

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

TOO MUCH PLUGGING ACTION FOR P.S.I. BREAKDOWN.

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

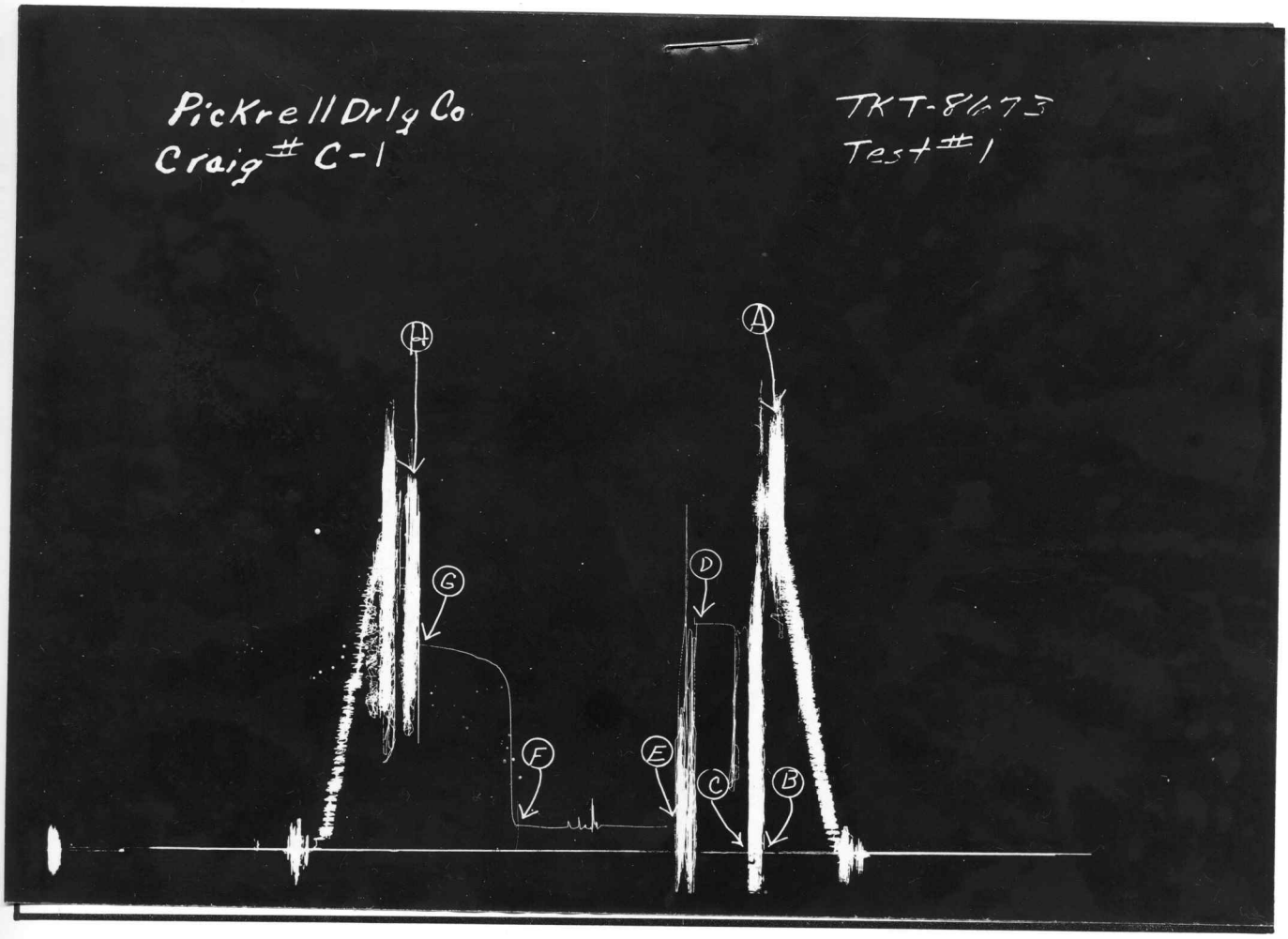
Point Minutes	Press.
0	0
3	840
6	1089
9	1107
12	1109
15	1111
18	1111
21	1111
24	1111
27	1111
30	1111

Second Flow Pressure
Breakdown: 23 Inc.
of 5 mins. and a
final inc. of 4 Min.

Point Minutes	Press.
0	Plugging
5	" " " " "
10	124
15	124
20	123
25	121
30	121
35	121
40	122
45	123
50	124
55	125
60	126
65	
70	Plugging
75	
80	114
85	114
90	114
95	114
100	118
105	120
110	122
115	125
119	127

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

Point Minutes	Press.
0	127
3	291
6	757
9	840
12	875
15	900
18	910
21	923
24	931
27	935
30	948
33	956
36	964
39	968
42	973
45	979
48	982
51	985
54	988
57	993
60	996



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	1765 PSI
(B)	First Initial Flow Pressure	--- PSI
(C)	First Final Flow Pressure	--- PSI
(D)	Initial Closed-in Pressure	1111 PSI
(E)	Second Initial Flow Pressure	124 PSI
(F)	Second Final Flow Pressure	127 PSI
(G)	Final Closed-in Pressure	996 PSI
(H)	Final Hydrostatic Mud	1741 PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. CRAIG #C-1 SEC. 5 TWP. 11s RGE. 16w TEST NO. 1 DATE 8-7

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

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

Elevation 2060 Kelly Bushings Formation Kansas City Effective Pay -------- Ft. Ticket No. 8674

Date Aug.10,1967 Sec. 5 Twp. 11s Range 16w County Ellis State Kansas

Test Approved by Albert E. Lukken Western Representative Kenneth Cheney

Formation Test No. 2 O.K. X Misrun ____ Interval Tested From 3470' to 3522' Total Depth 3522'

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

Top Packer Depth 3466 Ft. Size 6 3/4 Packer Depth 3470 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 52 Ft. Size 5½ OD 1 D.C.

RECORDERS Depth 3475 Ft. Clock No. 6860 Depth 3477 Ft. Clock No. 8367

Top Make Kuster Cap. 4150 No. 2608 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 1558 ~~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 12:49 A M

Tool Open I.F.P. From 12:50 M. to 1:00 M. Hr. 10 Min. From (B) 29 P.S.I. To (C) 29 P.S.I.

Tool Closed I.C.I.P. From 1:00 M. to 1:30 M. Hr. 30 Min. (D) 714 P.S.I.

Tool Open F.F.P. From 1:30 M. to 2:30 M. 1 Hr. Min. From (E) 37 P.S.I. To (F) 27 P.S.I.

Tool Closed F.C.I.P. From 2:30 M. to 3:30 M. 1 Hr. Min. (G) 675 P.S.I.

Initial Hydrostatic Pressure (A) 1986 P.S.I. Final Hydrostatic Pressure (H) 1971 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/8 In.		M.	
			M.	
			M.	

BLOW Very weak for 10 minutes. Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 20' mud

Reversed Out ____ Yes X No Mud Type starch Viscosity 41 Weight 10.3 Water Loss ------ cc. Maximum Temp. 107 °F

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

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

Length Drill Pipe 2850 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 600 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 72 ft.

Remarks Flushed tool after 15 and 45 minutes.

WESTERN TESTING CO., INC.
Pressure Data

Date: August 10, 1967

Test Ticket No.: 8674

Recorder No.: 2608 Capacity: 4150 Location: 3475 Ft.

Clock No.: 6860 Elevation: 2060 Kelly Bushings Well Temperature: 107 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1986 P.S.I.		Opened Tool	12:49 A M	
B	First Initial Flow Pressure	29 P.S.I.		First Flow Pressure	10 Mins.	11 Mins.
C	First Final Flow Pressure	29 P.S.I.		Initial Closed-in Pressure	30 Mins.	29 Mins.
D	Initial Closed-in Pressure	714 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	37 P.S.I.		Final Closed-in Pressure	60 Mins.	59 Mins.
F	Second Final Flow Pressure	27 P.S.I.				
G	Final Closed-in Pressure	675 P.S.I.				
H	Final Hydrostatic Mud	1971 P.S.I.				

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 1 Min.

Point	Mins.	Press.
P 1	0	29
P 2	5	29
P 3	10	29
P 4	11	29
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.

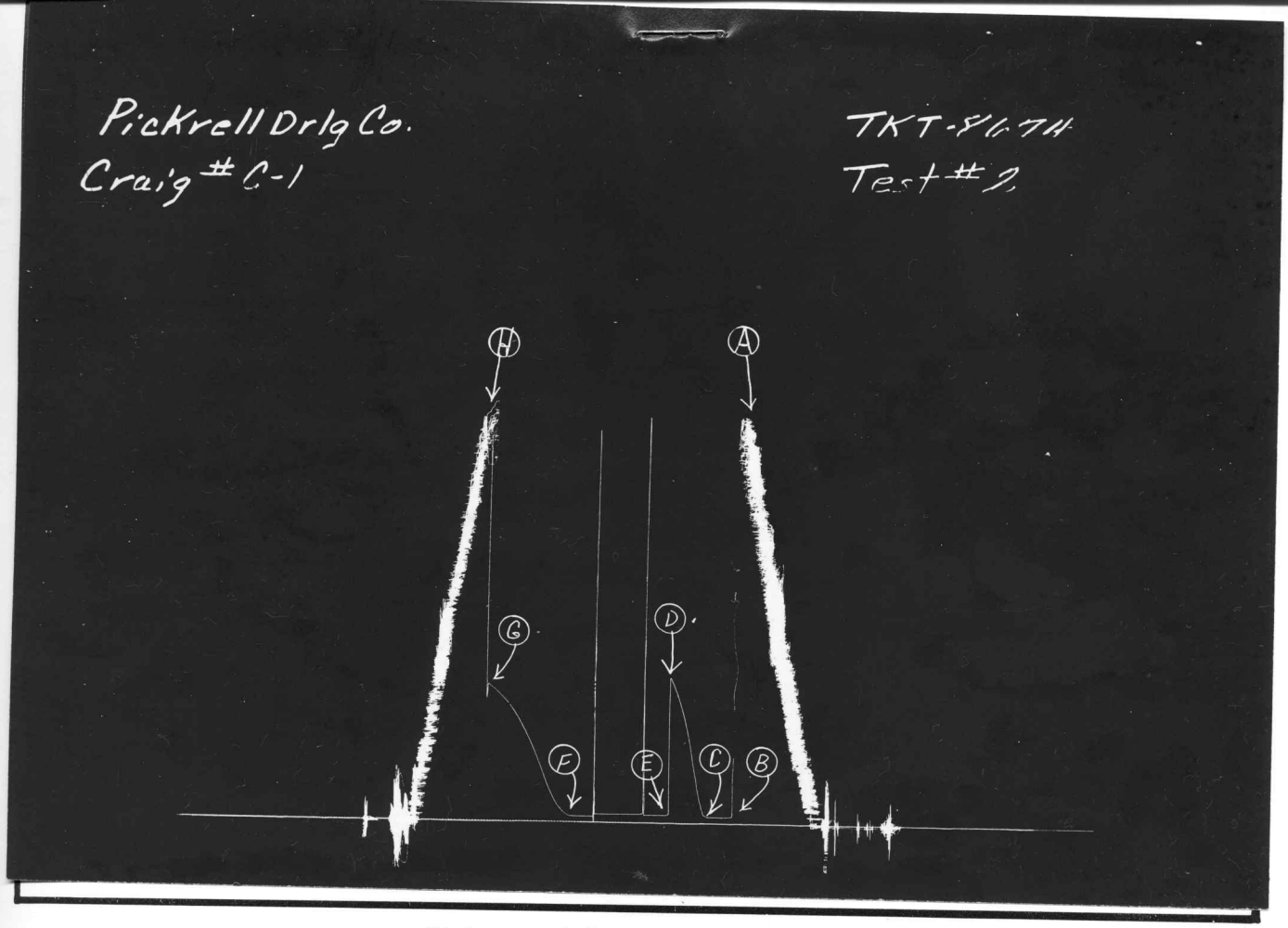
Point Minutes	Press.
0	29
3	39
6	110
9	226
12	334
15	443
18	530
21	607
24	664
27	701
29	714

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

Point Minutes	Press.
0	37
5	37
10	37
15	37
20	41
25	41
30	41
35	41
40	41
45	41
50	27
55	27
60	27

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

Point Minutes	Press.
0	27
3	37
6	56
9	83
12	116
15	162
18	218
21	272
24	328
27	377
30	422
33	468
36	510
39	545
42	576
45	600
48	625
51	646
54	658
59	675



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	1986 PSI
(B)	First Initial Flow Pressure	29 PSI
(C)	First Final Flow Pressure	29 PSI
(D)	Initial Closed-in Pressure	714 PSI
(E)	Second Initial Flow Pressure	37 PSI
(F)	Second Final Flow Pressure	27 PSI
(G)	Final Closed-in Pressure	675 PSI
(H)	Final Hydrostatic Mud	1971 PSI

COMPANY PICKRELL DRILLING COMPANY LEASE AND WELL NO. CRAIG #C-1 SEC. 5 TWP. 11s RGE. 16w TEST NO. 2 DATE 8-10-67

WESTERN TEST

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

Company PICKRELL DRLG. CO. Lease & Well No. Craig C-1

Elevation 2060 Kelly Bushings Formation Fort Scott Effective Pay ---------- Ft. Ticket No. 8675

Date 8-10-67 Sec. 5 Twp. 11s Range 16w County Ellis State Kansas

Test Approved by Albert E. Lukken Western Representative Kenneth Cheney

Formation Test No. 3 O.K. X Misrun Interval Tested From 3520' to 3572' Total Depth 3572'

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 3516 Ft. Size 6 3/4 Packer Depth 3520 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½ O.D. Tool Jt. Size 4½ F.H. Anchor Length 52 Ft. 1 D.C. Size 5½ O.D.

RECORDERS Depth 3536 Ft. Clock No. 6860 Depth 3538 Ft. Clock No. 8367

Top Make Kuster Cap. 4150 No. 2608 Inside Outside Bottom Make Kuster Cap. 4150 No. 1558 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 2:59 P. M

Tool Open I.F.P. From 3:00 P M. to 3:10 P M. Hr. 10 Min. From (B) 35 P.S.I. To (C) 33 P.S.I.

Tool Closed I.C.I.P. From 3:10 P M. to 3:40 P M. Hr. 30 Min. (D) 975 P.S.I.

Tool Open F.F.P. From 3:40 P M. to 4:40 P M. 1 Hr. -- Min. From (E) 52 P.S.I. To (F) 39 P.S.I.

Tool Closed F.C.I.P. From 4:40P M. to 5:40 P M. 1 Hr. -- Min. (G) 923 P.S.I.

Initial Hydrostatic Pressure (A) 2006 P.S.I. Final Hydrostatic Pressure (H) 1953 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/8 In.		M.	
			M.	
			M.	

BLOW Weak for 15 minutes & died; Flush tool-weak for 35 minutes & died. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 55 feet thin mud(very slightly oil cut.)

Reversed Out Yes X No Mud Type Starch Viscosity 48 Weight 10.3 Water Loss ---- cc. Maximum Temp. 102 °F

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

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

Length Drill Pipe 2900 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 600 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 72 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-67 Test Ticket No. 8675

Recorder No. 2608 Capacity 4150 Location 3536 Ft.

Clock No. 6860 Elevation 2060 Kelly Bushings Well Temperature 102 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2006 P.S.I.	Opened Tool	2:59 P. M	
B	First Initial Flow Pressure	35 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	33 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	975 P.S.I.	Second Flow Pressure	60 Mins.	59 Mins.
E	Second Initial Flow Pressure	52 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	39 P.S.I.			
G	Final Closed-in Pressure	923 P.S.I.			
H	Final Hydrostatic Mud	1953 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	Ø35
P 2	3	31
P 3	10	33
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	33
3	91
6	247
9	435
12	603
15	716
18	798
21	857
24	904
27	942
30	975

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 4 Min.

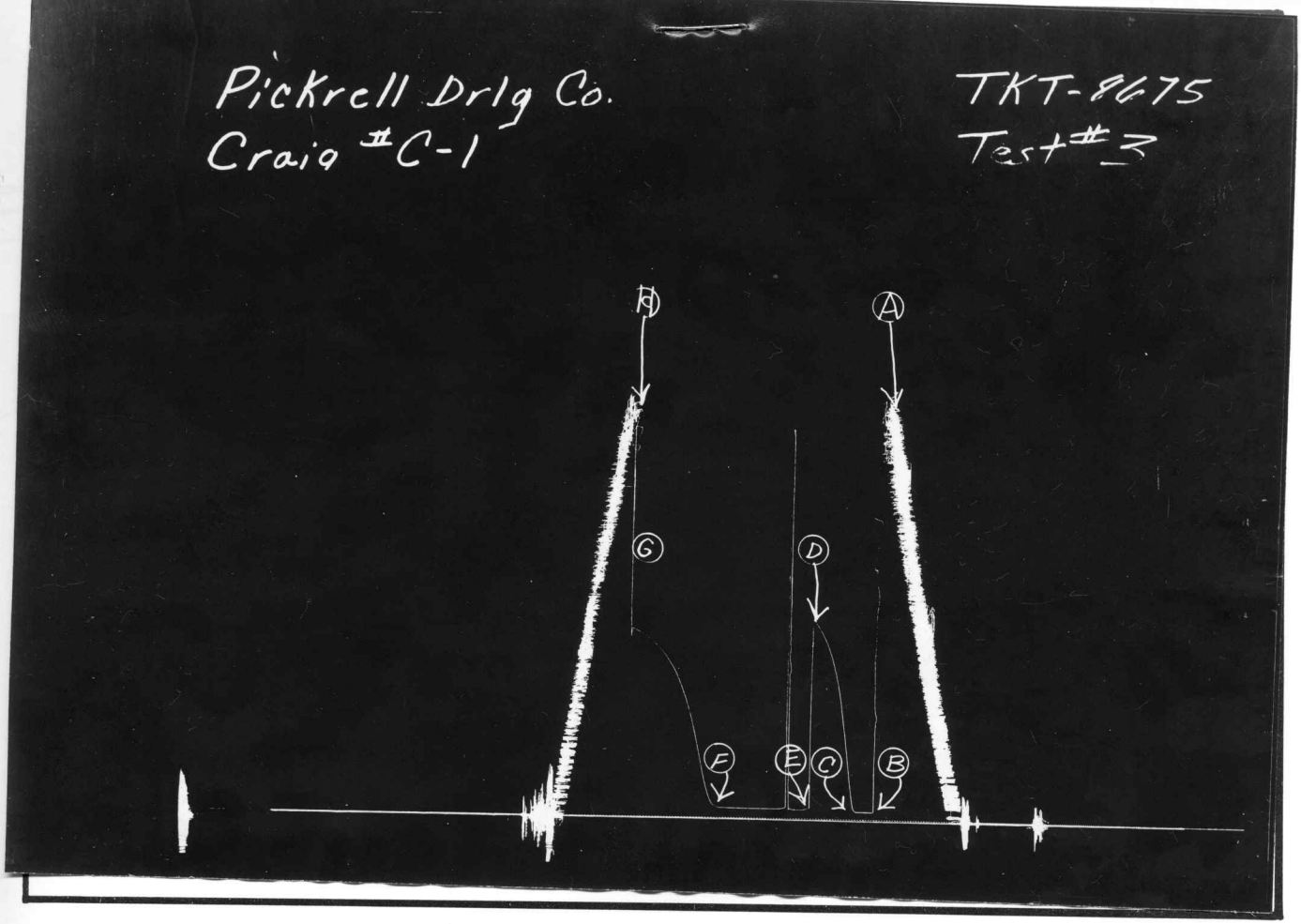
Point Minutes	Press.
0	52
5	37
10	41
15	39
20	39
25	39
30	39
35	39
40	39
45	39
50	39
55	39
59	39

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

Point Minutes	Press.
0	39
3	49
6	81
9	143
12	249
15	357
18	468
21	541
24	611
27	666
30	712
33	751
36	784
39	813
42	836
45	855
48	875
51	892
54	908
57	915
60	923

Pickrell Drlg Co.
Craig #C-1

TKT-8675
Test #3



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2006 PSI
(B)	First Initial Flow Pressure	35 PSI
(C)	First Final Flow Pressure	33 PSI
(D)	Initial Closed-in Pressure	975 PSI
(E)	Second Initial Flow Pressure	52 PSI
(F)	Second Final Flow Pressure	39 PSI
(G)	Final Closed-in Pressure	923 PSI
(H)	Final Hydrostatic Mud	1953 PSI

COMPANY PICKRELL DRLG. CO. LEASE AND WELL NO. CRAIG C-1 SEC. 5 TWP. 11S RGE. 16W TEST NO. 3 DATE 8-10-67

WESTERN TESTERS

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

Company PICKRELL DRLG. CO. Lease & Well No. Craig C-1

Elevation 2060 Kelly Bushings Formation Fort Scott Effective Pay -------- Ft. Ticket No. 8687

Date 8-11-67 Sec. 5 Twp. 11s Range 16w County Ellis State Kansas

Test Approved by Albert E. Lukken Western Representative Kenneth Cheney

Formation Test No. 4 O.K. X Misrun ____ Interval Tested From 3570' to 3595' Total Depth 3595'

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 3566 Ft. Size 6 3/4 Packer Depth 3570 Ft. Size 6 3/4

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

Packer Depth ____ Ft. Size ____

Tool Size 5½ O.D. Tool Jt. Size 4½ F.H. Anchor Length 25 Ft. Size 5½ O.D.

RECORDERS Depth 3885 Ft. Clock No. 6860 Depth 3587 Ft. Clock No. 8376

Top Make Kuster Cap. 4150 No. 2608 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 1558 ~~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 3:45 A. M

Tool Open I.F.P. From 3:50 A M. to 4:00 A M. Hr. 10 Min. From (B) 28 P.S.I. To (C) 28 P.S.I.

Tool Closed I.C.I.P. From 4:00 A M. to 4:30 A M. Hr. 30 Min. (D) 1093 P.S.I.

Tool Open F.F.P. From 4:30 A M. to 6:30 A M. 2 Hr. --- Min. From (E) 47 P.S.I. To (F) 108 P.S.I.

Tool Closed F.C.I.P. From 6:30 A M. to 7:30 A M. 1 Hr. --- Min. (G) 1055 P.S.I.

Initial Hydrostatic Pressure (A) 2118 P.S.I. Final Hydrostatic Pressure (H) 2091 P.S.I.

SURFACE INFORMATION	Size Choke 3/8 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Fair throughout test Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 185 feet muddy water

Reversed Out ____ Yes X No Mud Type starch Viscosity 60 Weight 10.3 Water Loss ---- cc. Maximum Temp. 107 °F

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

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

Length Drill Pipe 3150 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 600 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 45 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 8-11-67

Recorder No. 2608 Capacity 4150 Test Ticket No. 8676

Clock No. 6860 Elevation 2060 Kelly Bushings Location 3585 Ft.

Well Temperature 107 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2118 P.S.I.		Opened Tool	3:45 A. M	
B	First Initial Flow Pressure	28 P.S.I.		First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	28 P.S.I.		Initial Closed-in Pressure	30 Mins.	31 Mins.
D	Initial Closed-in Pressure	1093 P.S.I.		Second Flow Pressure	120 Mins.	118 Mins.
E	Second Initial Flow Pressure	47 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	108 P.S.I.				
G	Final Closed-in Pressure	1055 P.S.I.				
H	Final Hydrostatic Mud	2091 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	28
P 2	5	28
P 3	10	28
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 1 Min.

Point Minutes	Press.
0	28
3	237
6	565
9	939
12	1004
15	1031
18	1051
21	1066
24	1078
27	1085
30	1091
31	1093

Second Flow Pressure

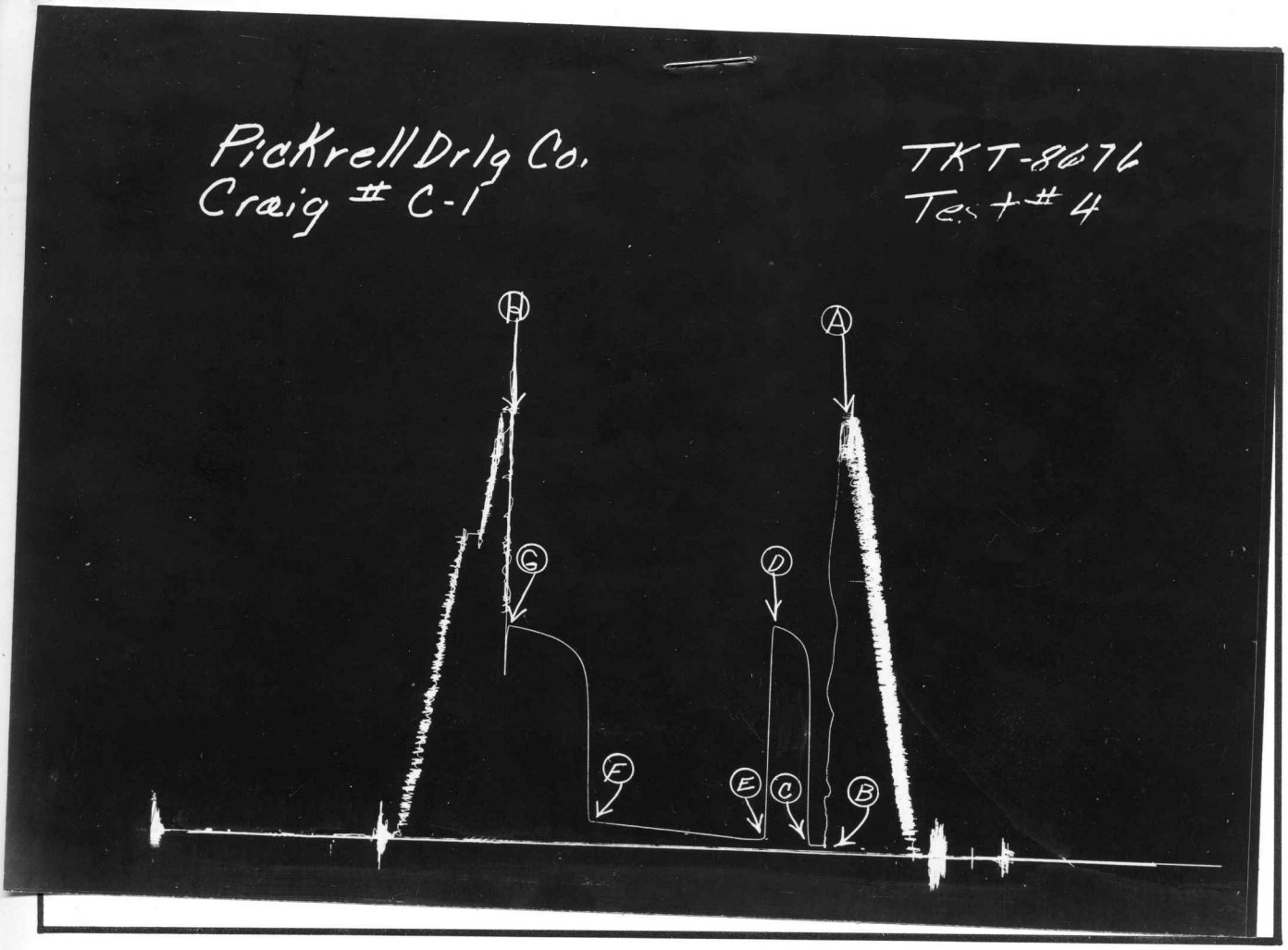
Breakdown: 23 Inc. of 5 mins. and a final inc. of 3 Min.

Point Minutes	Press.
0	47
5	47
10	47
15	47
20	49
25	52
30	56
35	58
40	62
45	64
50	66
55	72
60	74
65	79
70	81
75	83
80	85
85	89
90	91
95	93
100	97
105	99
110	104
115	106
118	108

Final Shut-In

Breakdown: 20 Inc. of 3 mins. and a final inc. of ____ Min.

Point Minutes	Press.
0	108
3	276
6	586
9	819
12	886
15	921
18	946
21	964
24	977
27	991
30	1002
33	1010
36	1016
39	1022
42	1028
45	1035
48	1039
51	1043
54	1047
57	1051
60	1055



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2118	PSI
(B)	First Initial Flow Pressure	28	PSI
(C)	First Final Flow Pressure	28	PSI
(D)	Initial Closed-in Pressure	1093	PSI
(E)	Second Initial Flow Pressure	47	PSI
(F)	Second Final Flow Pressure	108	PSI
(G)	Final Closed-in Pressure	1055	PSI
(H)	Final Hydrostatic Mud	2091	PSI

COMPANY PICKRELL DRLG. CO. LEASE AND WELL NO. CRAIG C-1 SEC. 5 TWP. 11S RGE. 16W TEST NO. 4 DATE 8-11-6