WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell F #1

Elevation 1507' K.B. Ticket Number 3959

Date 1-31-64 Sec. ____ Twp. ____ Range ____ County ____ State ____

Test Approved by Donald J. Malone Western Representative George Tew

---

Formation Test No. 1 O.K. X Misrun ____ Interval Tested From 3577' to 3605' Total Depth 3605'

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

Packer Depth 3577 Ft. Size 6 3/4" Packer Depth 3572 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 28 Ft. Size 5½" OD

RECORDERS Depth 3596 Ft Clock No. 6806 Depth 3599 Ft. Clock No. 60

Top Make Amerada Cap. 4200# No. 1558 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 5:34 P M

Tool Open I.F.P. From 5:36P M to 5:38P M - Hr. 2 Min. From (B) 460 P.S.I. To (C) 460 P.S.I.

Tool Closed I.C.I.P. From 5:38P M. to 6:08P M. - Hr. 30 Min. (D) 1540 P.S.I.

Tool Open F.F.P. From 6:08P M. to 6:43P M. - Hr. 35 Min. From (E) 481 P.S.I. To (F) 579 P.S.I.

Tool Closed F.C.I.P. From 6:43P M. to 7:13P M. - Hr. 30 Min. (G) 1529 P.S.I.

Inital Hydrostatic Pressure (A) 1949 P.S.I. Final Hydrostatic Pressure (H) 1945 P.S.I.

SURFACE INFORMATION Size Choke 1/2 In.

	Max. Press. P.S.I.	Time		Description of Flow
Gas	5 Lbs.	6:13 P.M.	5 Mins.	1,630,000
"	8 Lbs.	6:18 P.M.	10 "	2,060,000
"	8 Lbs.	6:23 P.M.	15 "	2,060,000

BLOW Strong-Gas to surface in 1 min.-Spray of mud 16 Mins.-Oil cut muddy water 18 Mins. Bottom Choke Size 3/4 in.

Did Well Flow X Yes ____ No Recovery Total Ft. Spray of O.C.Mdy. S.W. in 18 Mins. - 550' O.C.Mdy. S.W.

Reversed Out ____ Yes X No Mud Type Starch Viscosity 43 Weight 9.8 Maximum Temp. 120 °F Mud

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

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 2747 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 810 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D. S. T. Tool 48 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 1-31-64 Test Ticket No. 3959

Recorder No. 1558 Capacity 4200# Location 3596 Ft.

Clock No. 6806 Elevation 1507' K.B. Well Temperature 120 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1949 P.S.I.	Opened Tool	5:34 P M		5:34 PM	
B	First Initial Flow Pressure	460 P.S.I.	First Flow Pressure	2 Mins.		2 Mins.	
C	First Final Flow Pressure	460 P.S.I.	Initial Closed-in Pressure	30 Mins.		33 Mins.	
D	Initial Closed-in Pressure	1540 P.S.I.	Second Flow Pressure	35 Mins.		32 Mins.	
E	Second Initial Flow Pressure	481 P.S.I.	Final Closed-in Pressure	30 Mins.		38 Mins.	
F	Second Final Flow Pressure	579 P.S.I.					
G	Final Closed-in Pressure	1529 P.S.I.					
H	Final Hydrostatic Mud	1945 P.S.I.					

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	460
P 2 2	460
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: 11 Inc.
of 3 mins. and a
final inc. of - Min.

Point Minutes	Press.
0	460
3	1502
6	1537
9	1540
12	1540
15	1540
18	1540
21	1540
24	1540
27	1540
30	1540
33	1540

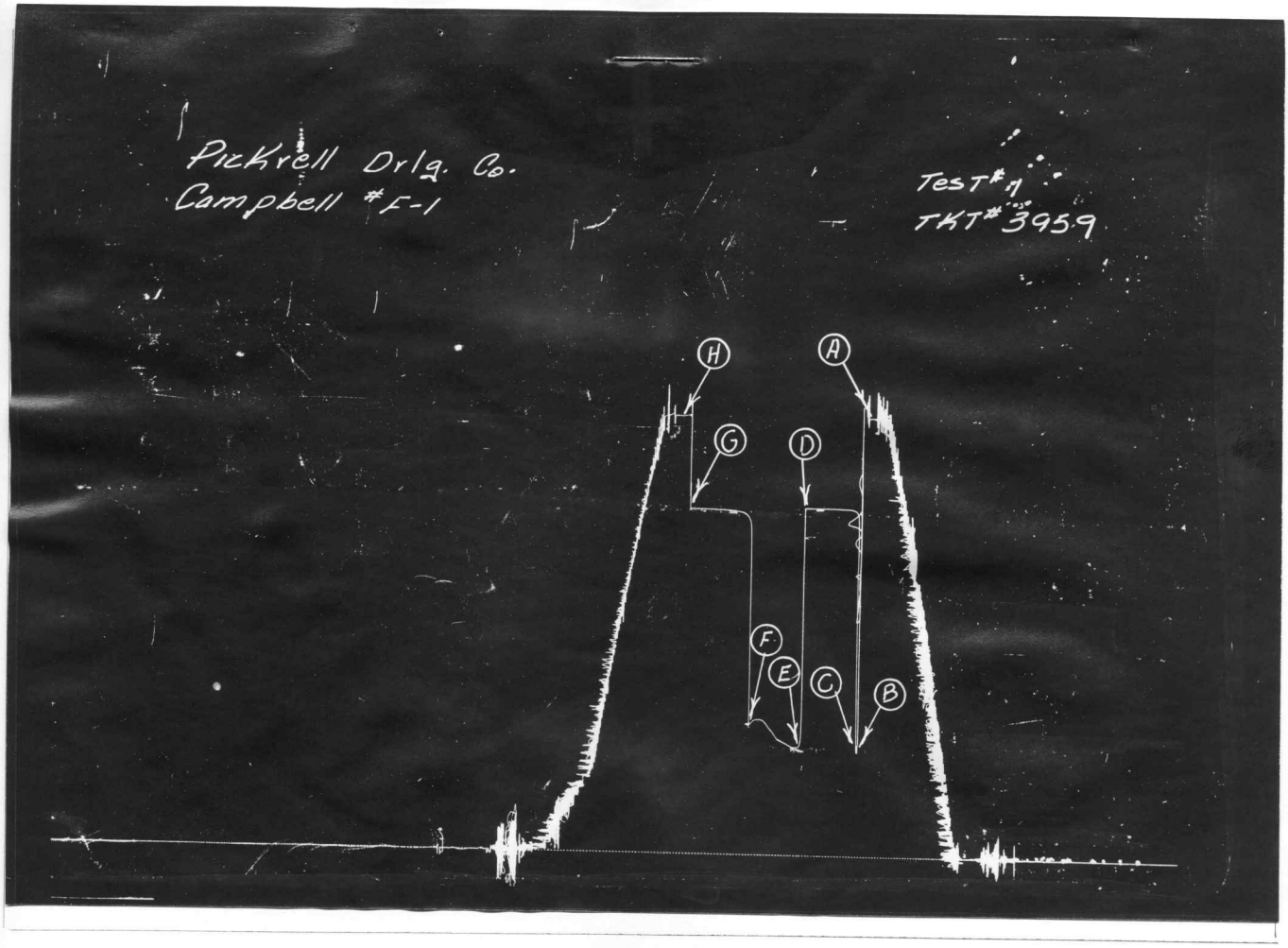
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 2 Min.

Point Minutes	Press.
0	481
5	485
10	500
15	512
20	568
25	601
30	581
32	579

Final Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 2 Min.

Point Minutes	Press.
0	579
3	1487
6	1514
9	1521
12	1525
15	1527
18	1529
21	1529
24	1529
27	1529
30	1529
33	1529
36	1529
38	1529

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1949	PSI
(B)	First Initial Flow Pressure	460	PSI
(C)	First Final Flow Pressure	460	PSI
(D)	Initial Closed-in Pressure	1540	PSI
(E)	Second Initial Flow Pressure	481	PSI
(F)	Second Final Flow Pressure	579	PSI
(G)	Final Closed-in Pressure	1529	PSI
(H)	Final Hydrostatic Mud	1945	PSI

Company Pickrell Drlg. Co. Lease and Well No. Campbell F #1 Sec. Twp. Rge. Test No. 1 Date 1-31-64

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell F #1

Elevation 1507' K.B. Ticket Number 3960

Date 1-31-64 Sec. 33 Twp. 29 Range 6 County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative George Tew

Formation Test No. 2 O.K. X Misrun ____ Interval Tested From 3683' to 3695' Total Depth 3695'

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

Packer Depth 3683 Ft. Size 6 3/4" Packer Depth 3678 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 12 Ft. Size 5½" OD

RECORDERS Depth 3687 Ft Clock No. 6806 Depth 3690 Ft. Clock No. 60

Top Make Amerada Cap. 4200# No. 1558 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 4:32 P M

Tool Open I.F.P. From 4:35P M to 4:40P M - Hr. 5 Min. From (B) 52 P.S.I. To (C) 52 P.S.I.

Tool Closed I.C.I.P. From 4:40P M. to 5:10P M. - Hr. 30 Min. (D) 1434 P.S.I.

Tool Open F.F.P. From 5:10P M. to 6:40P M. 1 Hr. 30 Min. From (E) 73 P.S.I. To (F) 225 P.S.I.

Tool Closed F.C.I.P. From 6:40P M. to 7:10P M. - Hr. 30 Min. (G) 1367 P.S.I.

Inital Hydrostatic Pressure (A) 2006 P.S.I. Final Hydrostatic Pressure (H) 1995 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Strong-Gas to surface in 20 mins. - too weak to gauge

Did Well Flow X Yes ____ No Recovery Total Ft. 680' - 675' Clean Oil @ 39°Gravity) 5' Muddy Water Bottom Choke Size ____ in.

Reversed Out ____ Yes X No Mud Type Starch Viscosity 40 Weight 10. Maximum Temp. 126 °F Mud

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

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 2853 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 810 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D. S. T. Tool 32 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 1-31-64 Test Ticket No. 3960

Recorder No. 1558 Capacity 4200# Location 3687 Ft.

Clock No. 6806 Elevation 1507' K.B. Well Temperature 126 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2006 P.S.I.	Opened Tool	4:32 PM	4:32 PM
B	First Initial Flow Pressure	52 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	52 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D	Initial Closed-in Pressure	1434 P.S.I.	Second Flow Pressure	90 Mins.	88 Mins.
E	Second Initial Flow Pressure	73 P.S.I.	Final Closed-in Pressure	30 Mins.	31 Mins.
F	Second Final Flow Pressure	225 P.S.I.			
G	Final Closed-in Pressure	1367 P.S.I.			
H	Final Hydrostatic Mud	1995 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	52
P 2 5	52
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: 11 Inc.
of 3 mins. and a
final inc. of — Min.

Point Minutes	Press.
0	52
3	432
6	753
9	1079
12	1303
15	1372
18	1401
21	1413
24	1422
27	1430
30	1432
33	1434

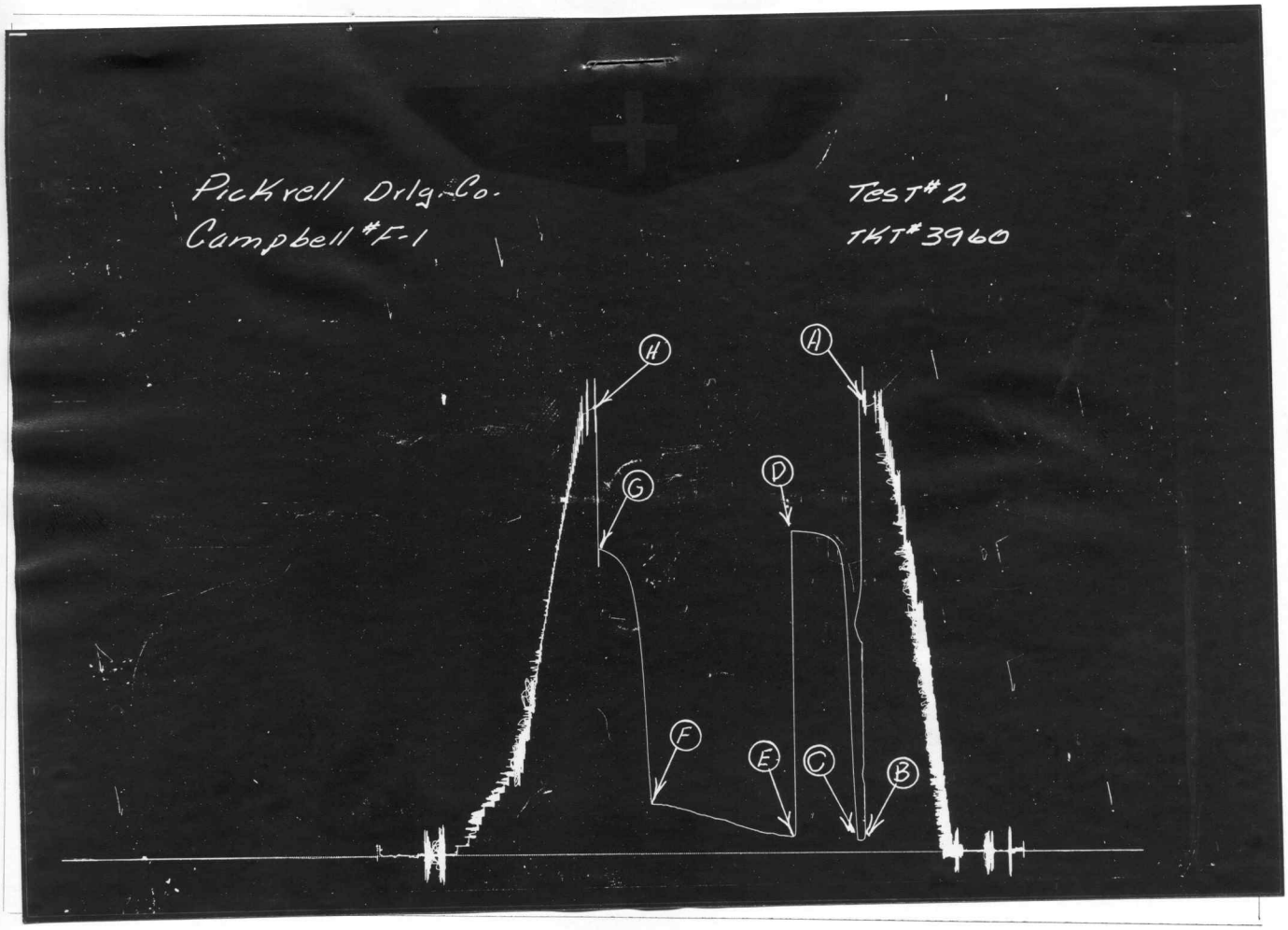
Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 3 Min.

Point Minutes	Press.
0	73
5	78
10	82
15	88
20	92
25	105
30	115
35	128
40	143
45	153
50	162
55	172
60	183
65	194
70	204
75	213
80	223 219
85	223
88	225

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

Point Minutes	Press.
0	225
3	666
6	914
9	1096
12	1211
15	1271
18	1307
21	1330
24	1342
27	1355
30	1363
31	1367

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2006	PSI
(B)	First Initial Flow Pressure	52	PSI
(C)	First Final Flow Pressure	52	PSI
(D)	Initial Closed-in Pressure	1434	PSI
(E)	Second Initial Flow Pressure	73	PSI
(F)	Second Final Flow Pressure	225	PSI
(G)	Final Closed-in Pressure	1367	PSI
(H)	Final Hydrostatic Mud	1995	PSI

Company Pickrell Drlg. Co. Lease and Well No. Campbell F #1 Sec. 33 Twp. 29 Rge. 6 Test No. 2 Date 1-31-64

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell F #1

Elevation 1507' K.B. Ticket Number 3961

Date 2-2-64 Sec. 33 Twp. 29 Range 6 County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative George Tew

---

Formation Test No. 3 O.K. X Misrun ____ Interval Tested From 3718' to 3740' Total Depth 3740'

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

Packer Depth 3718 Ft. Size 6 3/4" Packer Depth 3713 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 22 Ft. Size 5½" OD

RECORDERS Depth 3732 Ft Clock No. 6806 Depth 3735 Ft. Clock No. 60

Top Make Amerada Cap. 4200# No. 1558 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 7:36 P M

Tool Open I.F.P. From 7:38P M to 7:43P M - Hr. 5 Min. From (B) 52 P.S.I. To (C) 52 P.S.I.

Tool Closed I.C.I.P. From 7:43P M. to 8:13P M. - Hr. 30 Min. (D) 1002 P.S.I.

Tool Open F.F.P. From 8:13P M. to 9:13P M. 1 Hr. - Min. From (E) 61 P.S.I. To (F) 67 P.S.I.

Tool Closed F.C.I.P. From 9:13P M. to 9:43P M. - Hr. 30 Min. (G) 354 P.S.I.

Inital Hydrostatic Pressure (A) 2014 P.S.I. Final Hydrostatic Pressure (H) 2002 P.S.I.

SURFACE INFORMATION Size Choke 1/2 In. Max. Press. P.S.I. Time Description of Flow

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Fair, decreasing to weak steady blow Bottom Choke Size 3/4 in.

Did Well Flow ____ Yes X No Recovery Total Ft. 150' O.C. Mud - 480' G.I.P.

Mud

Reversed Out ____ Yes X No Mud Type Starch Viscosity 40 Weight 10. Maximum Temp. 120 °F

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

Type Circ. Sub Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 2886 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 810 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D. S. T. Tool 44 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 2-2-64 Test Ticket No. 3961

Recorder No. 1558 Capacity 4200# Location 3732 Ft.

Clock No. 6806 Elevation 1507' K.B. Well Temperature 120 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2014	P.S.I.
B	First Initial Flow Pressure	52	P.S.I.
C	First Final Flow Pressure	52	P.S.I.
D	Initial Closed-in Pressure	1002	P.S.I.
E	Second Initial Flow Pressure	61	P.S.I.
F	Second Final Flow Pressure	67	P.S.I.
G	Final Closed-in Pressure	354	P.S.I.
H	Final Hydrostatic Mud	2002	P.S.I.

	Time Given		Time Computed	
Opened Tool	7:36 P	M	7:36 PM	
First Flow Pressure	5	Mins.	5	Mins.
Initial Closed-in Pressure	30	Mins.	34	Mins.
Second Flow Pressure	60	Mins.	60	Mins.
Final Closed-in Pressure	30	Mins.	31	Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 11 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	52	0	52	0	61	0	67
P 2 5	52	3	82	5	61	3	80
P 3		6	118	10	61	6	99
P 4		9	162	15	62	9	118
P 5		12	223	20	63	12	141
P 6		15	303	25	63	15	160
P 7		18	432	30	64	18	189
P 8		21	576	35	64	21	215
P 9		24	705	40	65	24	248
P10		27	841	45	65	27	284
P11		30	933	50	66	30	333
P12		33	987	55	66	31	354
P13		34	1002	60	67		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WHELAN PRINTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell #F 1

Elevation 1507' K.B. Ticket Number 3666

Date 2-4-64 Sec. 33 Twp. 29 Range 6 County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative Jack Toelkes

Formation Test No. 4 O.K. X Misrun ____ Interval Tested From 4104' to 4130' Total Depth 4130'

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

Straddle ____ Yes ____ No X Packer Depth 4099 Ft. Size 6 3/4" Packer Depth 4104 Ft. Size 6 3/4"

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

Packer Depth ____ Ft Size ____

Tool Size 5½" OD Tool Jt. Size 4½" FH Anchor Length 26 Ft. Size 5½" OD

RECORDERS Depth 4123 Ft Clock No. 6892 Depth 4126 Ft. Clock No. 103

Top Make Amerada Cap. 3150# No. 1562 Inside ~~Outside~~ Bottom Make Western Cap. 4000# No. 57 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 5:49 A M

Tool Open I.F.P. From 5:50A M to 5:52A M - Hr. 2 Min. From (B) 64 P.S.I. To (C) 64 P.S.I.

Tool Closed I.C.I.P. From 5:52A M. to 6:22A M. - Hr. 30 Min. (D) 1579 P.S.I.

Tool Open F.F.P. From 6:22A M. to 7:22A M. 1 Hr. - Min. From (E) 76 P.S.I. To (F) 76 P.S.I.

Tool Closed F.C.I.P. From 7:22A M. to 7:52A M. - Hr. 30 Min. (G) 1441 P.S.I.

Inital Hydrostatic Pressure (A) 2242 P.S.I. Final Hydrostatic Pressure (H) 2227 P.S.I.

SURFACE INFORMATION

Size Choke 1 In.	Max. Press. P.S.I.	Time	Description of Flow
Spring Gauge	11" Wtr.	3 M.	Gas 458,000 C.F.D.
" "	5.2 "	28 M.	" 320,000 "
" "	4.5 "	58 M.	" 295,000 "

BLOW Strong

Did Well Flow ____ Yes X No Recovery Total Ft. G.T.S. 3 mins. 130' G.C.M. Bottom Choke Size 3/4 in.

Reversed Out ____ Yes X No Mud Type Starch Viscosity 42 Weight 10. Maximum Temp. 129 °F Mud

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

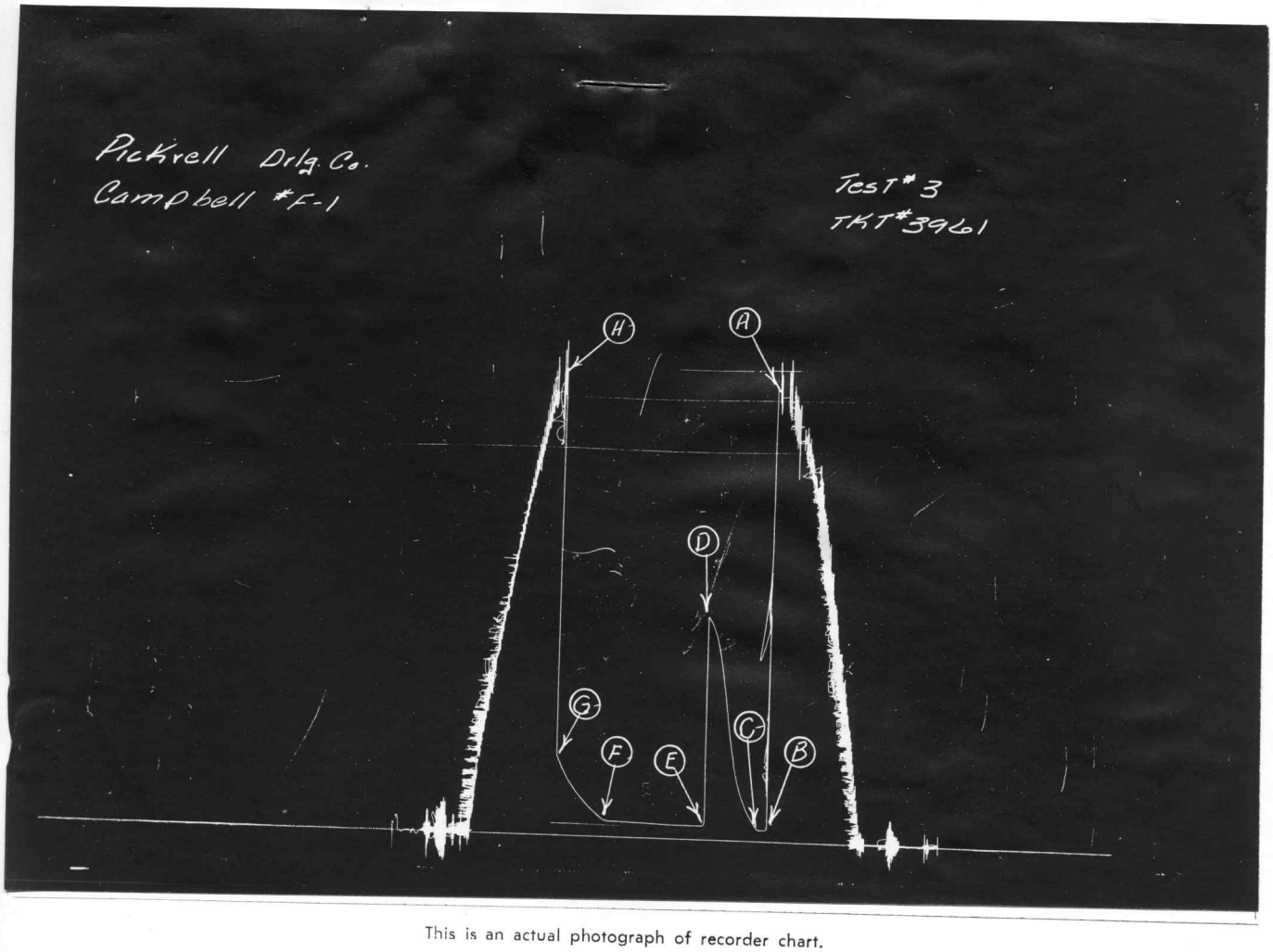
Type Circ. Sub Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 3315 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 780 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

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2014	PSI
(B)	First Initial Flow Pressure	52	PSI
(C)	First Final Flow Pressure	52	PSI
(D)	Initial Closed-in Pressure	1002	PSI
(E)	Second Initial Flow Pressure	61	PSI
(F)	Second Final Flow Pressure	67	PSI
(G)	Final Closed-in Pressure	354	PSI
(H)	Final Hydrostatic Mud	2002	PSI

Company Pickrell Drlg. Co. Lease and Well No. Campbell F #1 Sec. 33 Twp. 29 Rge. 6 Test No. 3 Date 2-2-64

WESTERN TESTING CO., INC.
Pressure Data

Date 2-4-64 Test Ticket No. 3666

Recorder No. 1562 Capacity 3150# Location 4123 Ft.

Clock No. 6892 Elevation 1507' K.B. Well Temperature 129 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2242 P.S.I.	Opened Tool	5:49 A M		5:49 AM	
B	First Initial Flow Pressure	64 P.S.I.	First Flow Pressure	2	Mins.	2	Mins.
C	First Final Flow Pressure	64 P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	1579 P.S.I.	Second Flow Pressure	60	Mins.	58	Mins.
E	Second Initial Flow Pressure	76 P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F	Second Final Flow Pressure	76 P.S.I.					
G	Final Closed-in Pressure	1441 P.S.I.					
H	Final Hydrostatic Mud	2227 P.S.I.					

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 1 Inc.
of 2 mins. and a
final inc. of - Min.

Point Mins.	Press.
P 1 0	64
P 2 2	64
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	64
3	1097
6	1432
9	1509
12	1541
15	1557
18	1566
21	1570
24	1575
27	1576
30	1579

Second Flow Pressure

Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 3 Min.

Point Minutes	Press.
0	76
5	76
10	76
15	76
20	76
25	76
30	76
35	76
40	76
45	76
50	76
55	76
58	76

Final Shut-In

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

Point Minutes	Press.
0	76
3	962
6	1153
9	1251
12	1319
15	1362
18	1386
21	1402
24	1417
27	1432
30	1441

WHELAN PRINTERS

WESTERN TESTERS

P. O. Box 793
GREAT BEND, KANSAS

Company Pickrell Drilling Co. Lease & Well No. Campbell F #1

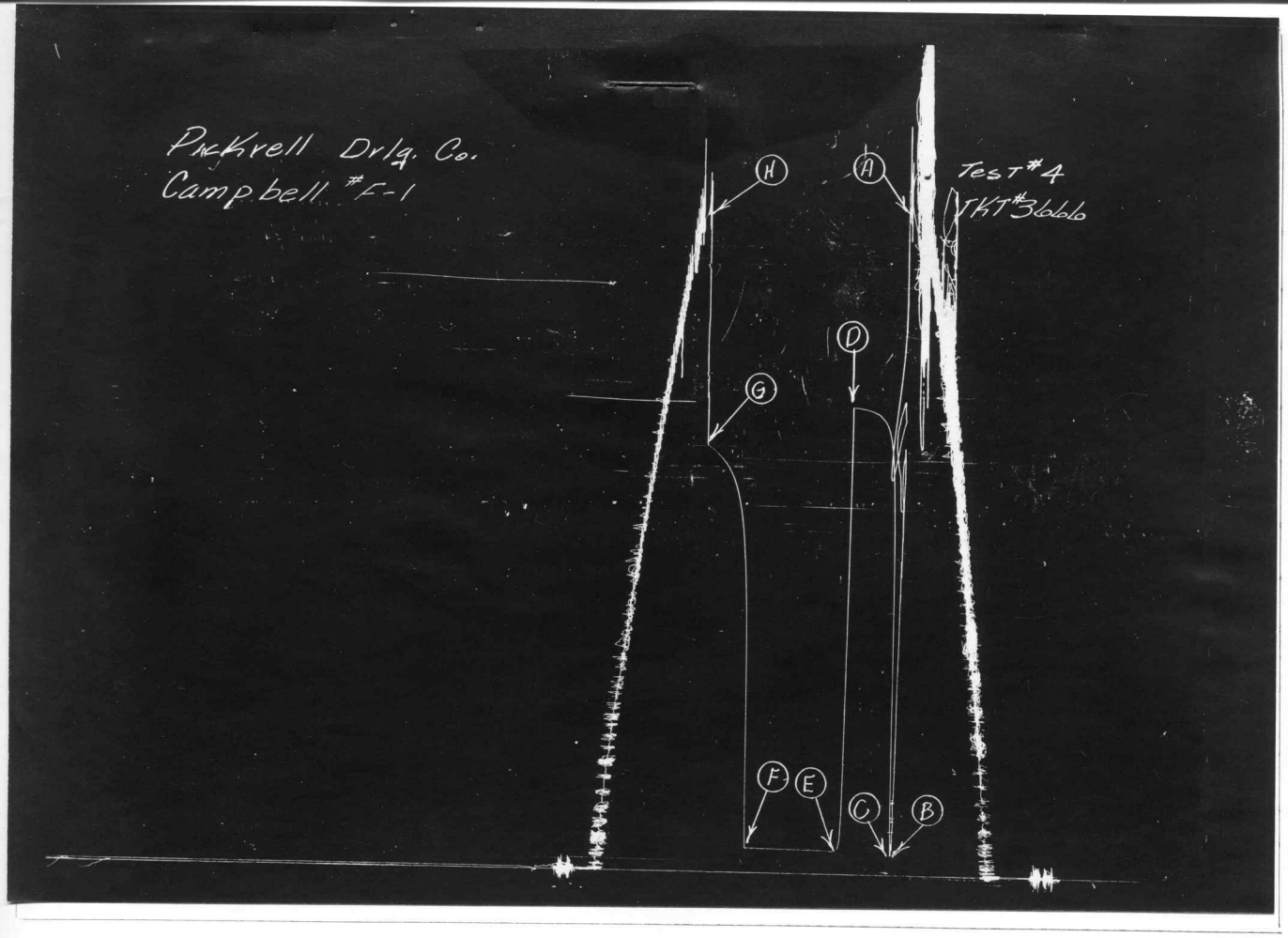
Test No. 4 Interval Tested From 4104' To 4130'

Time	Max. Press. P.S.I.	Description of Flow
Spring Gauge		
3 Mins.	11" Wtr.	458,000
8 "	6.8" Wtr.	362,000
13 "	6" "	340,000
18 "	5.8" "	330,000
23 "	5.4" "	324,000
28 "	5.3" "	320,000
33 "	5.2" "	315,000
38 "	5" "	310,000
43 "	4.8 "	305,000
48 "	4.7" "	300,000
53 "	4.6" "	298,000
58 "	4.5" "	295,000

Size Choke Surface In. Bottom In.

Remarks

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2242	PSI
(B)	First Initial Flow Pressure	64	PSI
(C)	First Final Flow Pressure	64	PSI
(D)	Initial Closed-in Pressure	1579	PSI
(E)	Second Initial Flow Pressure	76	PSI
(F)	Second Final Flow Pressure	76	PSI
(G)	Final Closed-in Pressure	1441	PSI
(H)	Final Hydrostatic Mud	2227	PSI

Company Pickrell Drlg. Co. Lease and Well No. Campbell #F-1 Sec. 33 Twp. 29 Rge. 6 Test No. 4 Date 2-4-64

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell F #1

Elevation 1507' K.B. Ticket Number 3667

Date 2-4-64 Sec. 33 Twp. 29 Range 6 County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative Jack Toelkes

Formation Test No. 5 O.K. X Misrun ____ Interval Tested From 4130' to 4150' Total Depth 4150'

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

Packer Depth 4125 Ft. Size 6 3/4" Packer Depth 4130 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 4144 Ft Clock No. 6892 Depth 4147 Ft. Clock No. 103

Top Make Amerada Cap. 3150# No. 1562 Inside ~~Outside~~ Bottom Make Western Cap. 4000# No. 57 ~~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 6:43 P M

Tool Open I.F.P. From 6:44P M to 6:47P M - Hr. 3 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.

Tool Closed I.C.I.P. From 6:47P M. to 7:17P M. - Hr. 30 Min. (D) 1469 P.S.I.

Tool Open F.F.P. From 7:17P M. to 8:17P M. 1 Hr. - Min. From (E) 42 P.S.I. To (F) 69 P.S.I.

Tool Closed F.C.I.P. From 8:17P M. to 8:47P M. - Hr. 30 Min. (G) 1004 P.S.I.

Inital Hydrostatic Pressure (A) 2252 P.S.I. Final Hydrostatic Pressure (H) 2224 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Very weak throughout test

Did Well Flow ____ Yes X No Recovery Total Ft. 70' G.C.M. - 60' Mdy. wtr.

Reversed Out ____ Yes X No Mud Type Starch Viscosity 43 Weight 10. Maximum Temp. 131 °F

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

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 3531 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 780 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D. S. T. Tool 39 ft.

Remarks

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 2-4-64 Test Ticket No. 3667

Recorder No. 1562 Capacity 3150# Location 4144 Ft.

Clock No. 6892 Elevation 1507' K.B. Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2252 P.S.I.	Opened Tool	6:43 P M	6:43 PM
B First Initial Flow Pressure	32 P.S.I.	First Flow Pressure	3 Mins.	3 Mins.
C First Final Flow Pressure	32 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	1469 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	42 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	69 P.S.I.			
G Final Closed-in Pressure	1004 P.S.I.			
H Final Hydrostatic Mud	2224 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	32
P 2 3	32
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 - Min.

Point Minutes	Press.
0	32
3	86
6	223
9	554
12	1047
15	1244
18	1345
21	1398
24	1439
27	1469

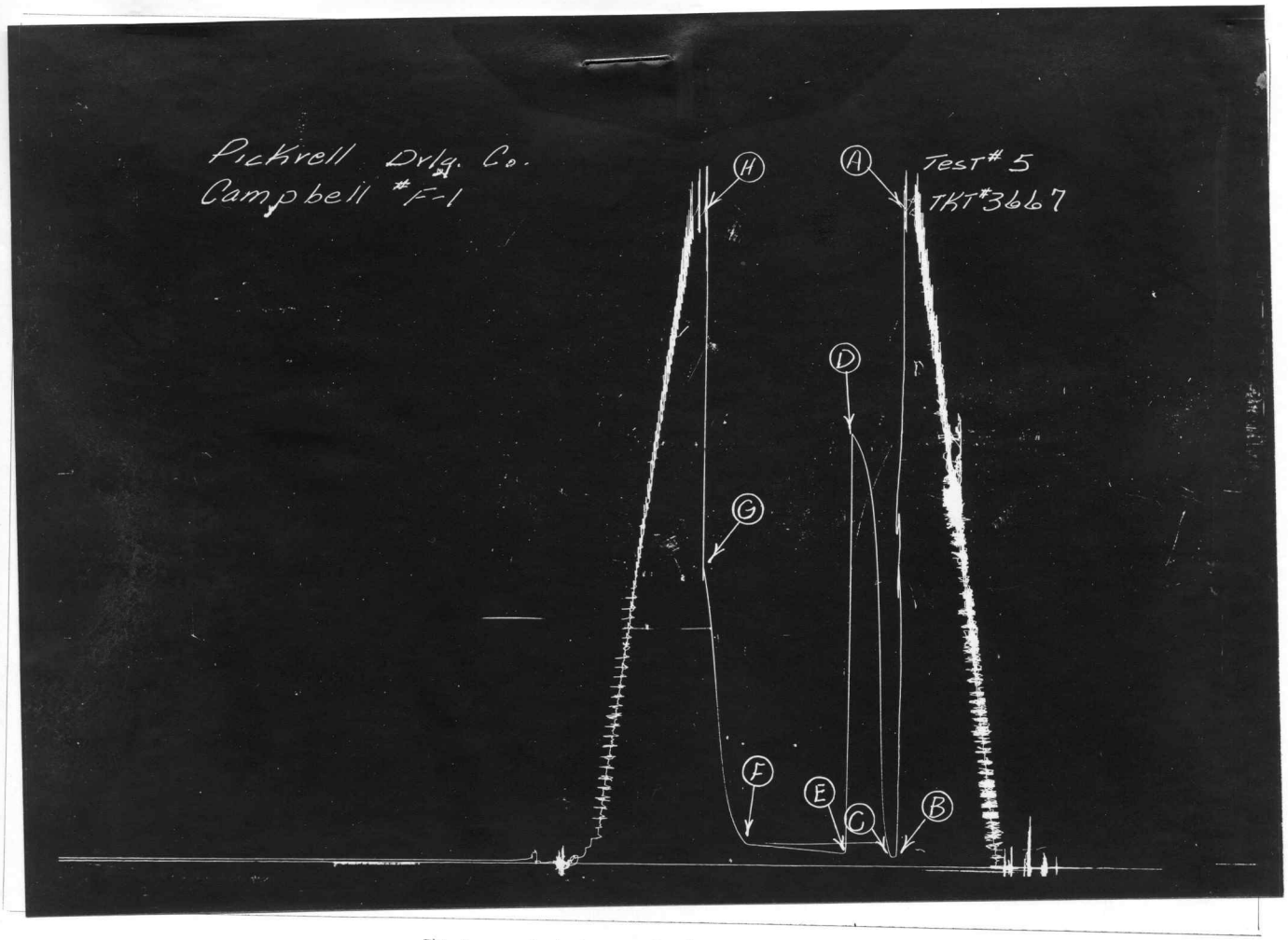
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of - Min.

Point Minutes	Press.
0	42
5	45
10	47
15	50
20	51
25	54
30	56
35	59
40	61
45	64
50	66
55	67
60	69

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

Point Minutes	Press.
0	69
3	83
6	111
9	146
12	195
15	277
18	405
21	599
24	762
27	912
30	1004

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2252	PSI
(B)	First Initial Flow Pressure	32	PSI
(C)	First Final Flow Pressure	32	PSI
(D)	Initial Closed-in Pressure	1469	PSI
(E)	Second Initial Flow Pressure	42	PSI
(F)	Second Final Flow Pressure	69	PSI
(G)	Final Closed-in Pressure	1004	PSI
(H)	Final Hydrostatic Mud	2224	PSI

Company Pickrell Drlg. Co. Lease and Well No. Campbell F #1 Sec. 33 Twp. 29 Rge. 6 Test No. 5 Date 2-4-64

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell F #1

Elevation 1507' D.F. Ticket Number 3883

Date 2-7-64 Sec. 33 Twp. 29 Range 6 County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative Ray H. Roadenbaugh

Formation Test No. 6 O.K. X Misrun ____ Interval Tested From 4464' to 4474' Total Depth 4474'

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

Straddle ____ Yes ____ X No Packer Depth 4464 Ft. Size 6 3/4" Packer Depth 4459 Ft. Size 6 3/4"

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

Tool Size 5½" OD Packer Depth ____ Ft Size ____ Tool Jt. Size 4½" FH Anchor Length 10 Ft. Size 5½" OD

RECORDERS Depth 4467 Ft Clock No. 6897 Depth 4470 Ft. Clock No. 29

Top Make Amerada Cap. 3150# No. 1565 Inside Outside Bottom Make Western Cap. 3000# No. 29 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 9:02A M

Tool Open I.F.P. From 9:04A M to 9:09A M - Hr. 5 Min. From (B) 59 P.S.I. To (C) 59 P.S.I.

Tool Closed I.C.I.P. From 9:09A M. to 9:39A M. - Hr. 30 Min. (D) 1620 P.S.I.

Tool Open F.F.P. From 9:39A M. to 11:09A M. 1 Hr. 30 Min. From (E) 79 P.S.I. To (F) 359 P.S.I.

Tool Closed F.C.I.P. From 11:09A M. to 11:39A M. - Hr. 30 Min. (G) 1618 P.S.I.

Inital Hydrostatic Pressure (A) 2428 P.S.I. Final Hydrostatic Pressure (H) 2406 P.S.I.

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

____ ____ ____ M. ____

____ ____ ____ M. ____

____ ____ ____ M. ____

BLOW Gas to surface in 4 mins.T.S.T.M.-Flowed 1½ Gal. condensate

Did Well Flow X Yes ____ No Recovery Total Ft. 1612' 1364' Clean Oil - 248' Mud cut oil Bottom Choke Size 3/4 in.

Reversed Out ____ Yes X No Mud Type Starch Viscosity 47 Weight 10.3 Maximum Temp. 144 °F Mud

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

Type Circ. Sub Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 3498 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 945 ft. I.D. Weight Pipe 2.6 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D. S. T. Tool 2910 ft.

Remarks

43 Gravity at 58°

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 2-7-64 Test Ticket No. KK 3883

Recorder No. 1565 Capacity 3150# Location 4467 Ft.

Clock No. 6897 Elevation 1507' D.F. Well Temperature 144 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2428	P.S.I.	Opened Tool 9:02 A M	9:02 AM
B First Initial Flow Pressure	59	P.S.I.	First Flow Pressure 5 Mins.	5 Mins.
C First Final Flow Pressure	59	P.S.I.	Initial Closed-in Pressure 30 Mins.	29 Mins.
D Initial Closed-in Pressure	1620	P.S.I.	Second Flow Pressure 90 Mins.	90 Mins.
E Second Initial Flow Pressure	79	P.S.I.	Final Closed-in Pressure 30 Mins.	28 Mins.
F Second Final Flow Pressure	359	P.S.I.		
G Final Closed-in Pressure	1618	P.S.I.		
H Final Hydrostatic Mud	2406	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	59
P 2 5	59
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	59
3	893
6	1620
9	1620
12	1620
15	162-
18	1620
21	1620
24	1620
27	1620
29	1620

Second Flow Pressure

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

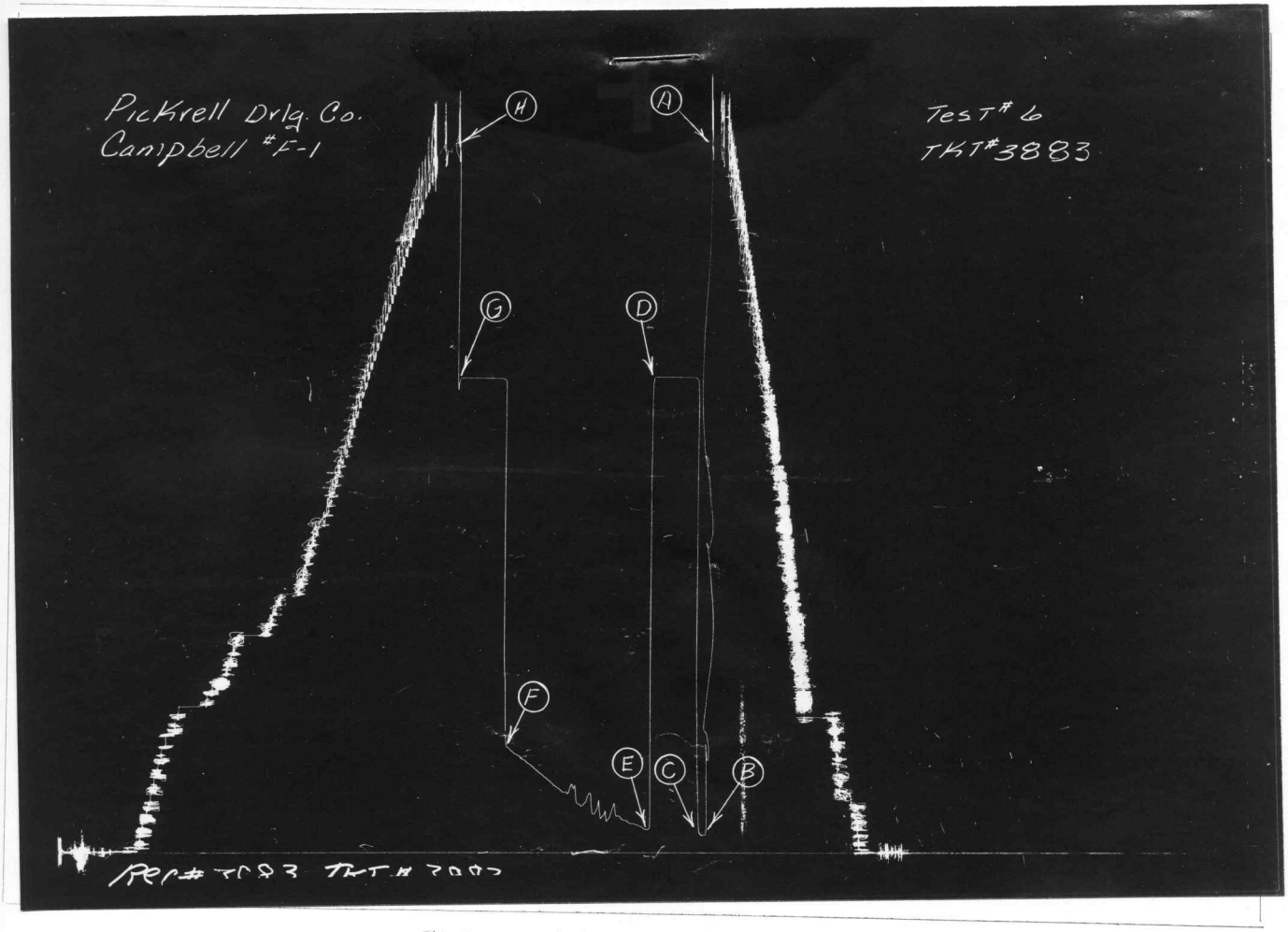
Point Minutes	Press.
0	79
5	87
10	97
15	106
20	117
25	127
30	139
35	149
40	160
45	169
50	184
55	204
60	231
65	256
70	279
75	302
80	321
85	342
90	359

Final Shut-In

Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	359
3	1616
6	1618
9	1618
12	1618
15	1618
18	1618
21	1618
24	1618
27	1618
28	1618

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2428	PSI
(B)	First Initial Flow Pressure	59	PSI
(C)	First Final Flow Pressure	59	PSI
(D)	Initial Closed-in Pressure	1620	PSI
(E)	Second Initial Flow Pressure	79	PSI
(F)	Second Final Flow Pressure	359	PSI
(G)	Final Closed-in Pressure	1618	PSI
(H)	Final Hydrostatic Mud	2406	PSI

Company Pickrell Drlg. Lease and Well No. Campbell F #1 Sec. 33 Twp. 28 Rge. 6 Test No. 6 Date 2-7-64

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell F #1

Elevation 1507' K.B. Ticket Number 3967

Date 2-8-64 Sec. 33 Twp. 29 Range 6 County Kingman State Kansas

Test Approved by Donald J. Malone Western Representative George Tew

Formation Test No. 7 O.K. X Misrun ____ Interval Tested From 4474' to 4479' Total Depth 4479'

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 4474 Ft. Size 6 3/4" Packer Depth 4469 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 5 Ft. Size 5½" OD

RECORDERS

	Depth	Clock No.	Top Make	Cap.	No.	Inside / Outside
	4464 Ft	3	Western	4000#	3	Outside
	4476 Ft.	60	Western	4000#	60	Inside
Below Straddle:	Depth ____	Clock No. ____	Top Make ____	Cap. ____	No. ____	Inside / Outside
	Depth ____ Ft.	Clock No. ____	Bottom Make ____	Cap. ____	No. ____	Inside / Outside

Time Set Packer 12:05A M

Tool Open I.F.P. From 12:08A M to 12:13A M - Hr. 5 Min. From (B) 426 P.S.I. To (C) 548 P.S.I.

Tool Closed I.C.I.P. From 12:13A M. to 12:43A M. - Hr. 30 Min. (D) 1656 P.S.I.

Tool Open F.F.P. From 12:43A M. to 1:20A M. - Hr. 37 Min. From (E) 570 P.S.I. To (F) 918 P.S.I.

Tool Closed F.C.I.P. From 1:20A M. to 1:50A M. - Hr. 30 Min. (G) 1618 P.S.I.

Inital Hydrostatic Pressure (A) 2496 P.S.I. Final Hydrostatic Pressure (H) 2484 P.S.I.

SURFACE INFORMATION — Size Choke 1/2 In. | Max. Press. P.S.I. | Time | Description of Flow

_____ | _____ | _____ M. | _____

_____ | _____ | _____ M. | _____

_____ | _____ | _____ M. | _____

BLOW Strong-Gas to surface in 4 mins-Oil in 23

Bottom Choke Size ____ in.

Did Well Flow X Yes ____ No Recovery Total Ft. 120' H.O.C.Mud - 180' Oil - Circulating sub was run 5 stands up

Reversed Out X Yes ____ No Mud Type Starch Viscosity 48 Weight 10.2 Maximum Temp. 148 °F Mud

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

Type Circ. Sub. Plug Did Tool Plug? No Where? ____ Did Packer Hold? Yes

Length Drill Pipe 3639 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 810 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D. S. T. Tool 30 ft.

Remarks

Amerada clock failed to run - Two (2) Western recorders were run instead.

WHELAN PRINTERS

WESTERN TESTING CO., INC.
Pressure Data

Date 2-8-64 Test Ticket No. 3967

Recorder No. 60 Capacity 4000# Location 4464 Ft.

Clock No. 60 Elevation 1507' K.B. Well Temperature 148 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2496	P.S.I.
B	First Initial Flow Pressure	426	P.S.I.
C	First Final Flow Pressure	548	P.S.I.
D	Initial Closed-in Pressure	1656	P.S.I.
E	Second Initial Flow Pressure	570	P.S.I.
F	Second Final Flow Pressure	918	P.S.I.
G	Final Closed-in Pressure	1618	P.S.I.
H	Final Hydrostatic Mud	2484	P.S.I.

	Time Given		Time Computed	
Opened Tool	12:05A	M	12:05	AM
First Flow Pressure	5	Mins.	5	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	37	Mins.	30	Mins.
Final Closed-in Pressure	30	Mins.	30	Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	426
P 2 5	548
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	548
3	1656
6	1656
9	1656
12	1656
15	1656
18	1656
21	1656
24	1656
27	1656
30	1656

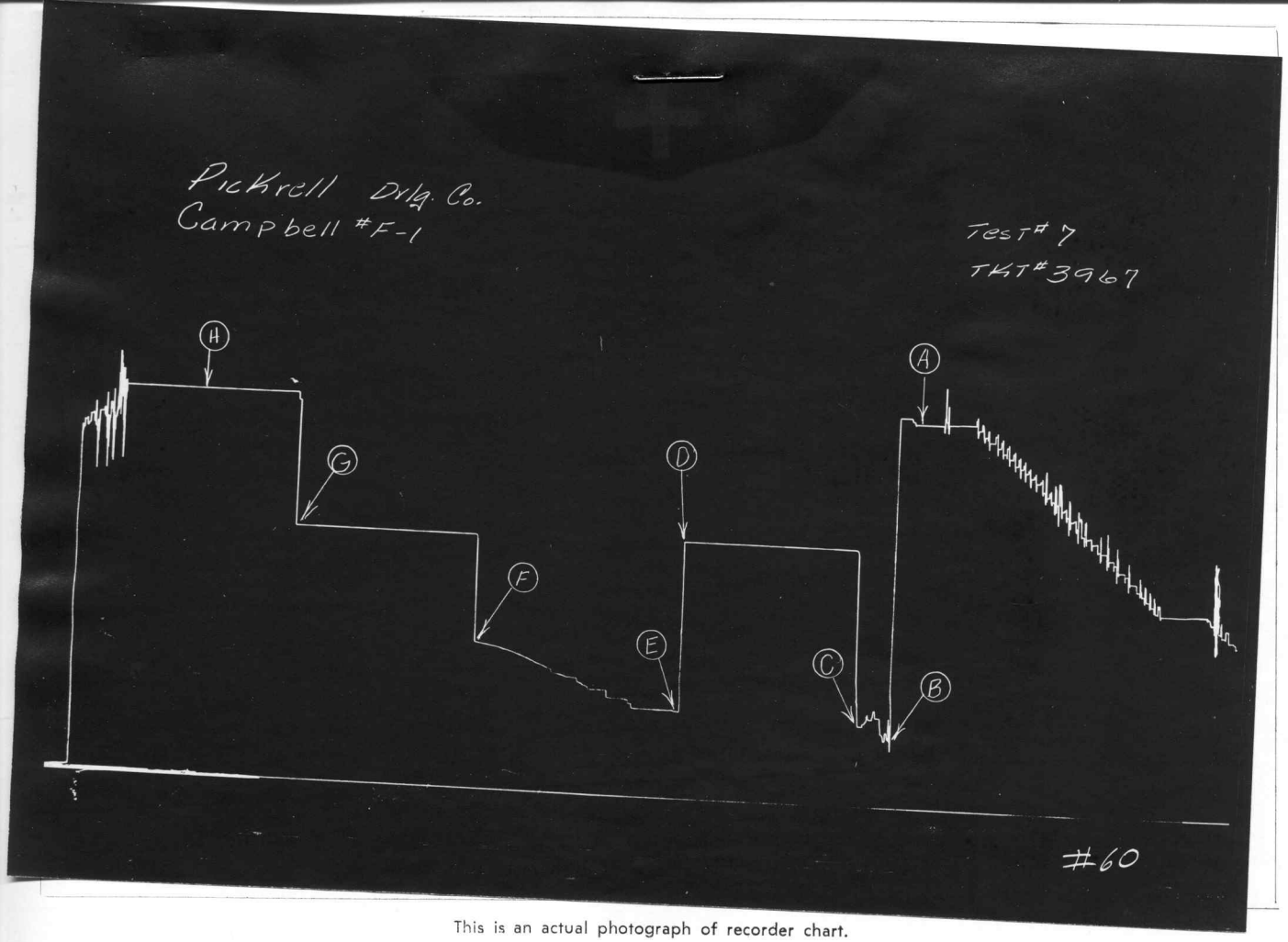
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of - Min.

Point Minutes	Press.
0	570
5	574
10	626
15	714
20	856
25	900
30	918
35	

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

Point Minutes	Press.
0	918
3	1618
6	1618
9	1618
12	1618
15	1618
18	1618
21	1618
24	1618
27	1618
30	1618

WHELAN PRINTERS



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2496	PSI
(B)	First Initial Flow Pressure	426	PSI
(C)	First Final Flow Pressure	548	PSI
(D)	Initial Closed-in Pressure	1656	PSI
(E)	Second Initial Flow Pressure	570	PSI
(F)	Second Final Flow Pressure	918	PSI
(G)	Final Closed-in Pressure	1618	PSI
(H)	Final Hydrostatic Mud	2484	PSI

Company Pickrell Drlg. Co. Lease and Well No. Campbell F #1 Sec. 33 Twp. 29 Rge. 6 Test No. 7 Date 2-8-64