Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

mpany Pickrell Drilling Company Lease & Well No. Wells F-1

evation 2220 Kelly Bushings Formation Mississippi Ticket Number 5110

te Dec. 3, 1965 Sec. 36 Twp. 30 Range 21 County Ness State Kansas

st Approved by Ralph W. Ruwwe Western Representative Dean Blagrave

rmation Test No. 1 O.K. X Misrun Interval Tested From 4338' to 4381' Total Depth 4381'

e 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 4333 Ft. Size 6 3/4 Packer Depth 4338 Ft. Size 6 3/4

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

Packer Depth Ft. Size

ol Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 43 Ft. Size 5½ OD

CORDERS Depth 4372 Ft. Clock No. 6774 Depth 4375 Ft. Clock No. 158

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 Inside Outside

low Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

me Set Packer 9:32 P M

ol Open I.F.P. From 9:35P M to 9:40 M Hr. 5 Min. From (B) 49 P.S.I. To (C) 54 P.S.I.

ol Closed I.C.I.P. From 9:40 M. to 10:10 M. Hr. 30 Min. (D) 1528 P.S.I.

ol Open F.F.P. From 10:10P M. to 12:10 M. 2 Hr. Min. From (E) 77 P.S.I. To (F) 153 P.S.I.

ol Closed F.C.I.P. From 12:10 M. to 12:40 M. Hr. 30 Min. (G) 497 P.S.I.

tial Hydrostatic Pressure (A) 2392 P.S.I. Final Hydrostatic Pressure (H) 2368 P.S.I.

RFACE	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
FORMATION			M.	
			M.	
			M.	

OW Weak throughout Bottom Choke Size 3/4 In.

d Well Flow Yes X No Recovery Total Ft. 20' free oil; 60' oil cut mud; 60' thin slightly oil cut d; 120' thin mud.

Mud

versed Out Yes X No Mud Type starch Viscosity 49 Weight 10/0 Maximum Temp. 120 °F

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

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

ngth Drill Pipe ft. I.D. Drill Pipe in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

D. Drill Collars in. Length D.S.T. Tool 18 ft.

marks

WESTERN TESTING CO., INC.
Pressure Data

Date December 3, 1965 — Test Ticket No. 5110

Recorder No. 1567 — Capacity 4300 — Location 4372 Ft.

Clock No. 6774 — Elevation 2220 Kelly Bsuhings — Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2392 P.S.I.	Opened Tool	9:32P M	
B First Initial Flow Pressure	49 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	54 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1528 P.S.I.	Second Flow Pressure	120 Mins.	118 Mins.
E Second Initial Flow Pressure	77 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	153 P.S.I.			
G Final Closed-in Pressure	497 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 0 Min.

Point Mins.	Press.
P 1 0	49
P 2 5	54
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 0 Min.

Point Minutes	Press.
0	54
3	840
6	1169
9	1333
12	1413
15	1463
18	1489
21	1504
24	1517
27	1521
30	1528

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

Point Minutes	Press.
0	77
5	82
10	86
15	90
20	97
25	101
30	108
35	110
40	114
45	118
50	123
55	126
60	128
65	131
70	133
75	136
80	140
85	142
90	144
95	146
100	149
105	150
110	151
115	152
118	153

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

Point Minutes	Press.
0	153
3	213
6	267
9	313
12	350
15	387
18	415
21	439
24	458
27	476
30	497

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Wells F-1

Elevation 2220 KellyBushings Formation Mississippi Ticket Number 5111

Date Dec.4,1965 Sec. 36 Twp. 20 Range 21 County Ness State Kansas

Test Approved by Ralph W. Ruswe Western Representative Dean Blagrave

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Formation Test No. 2 O.K. x Misrun ____ Interval Tested From 4381' to 4386' Total Depth 4386'

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

Packer Depth 4376 Ft. Size 6 3/4 Packer Depth 4381 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 5 Ft. Size 5½ OD

RECORDERS Depth 4371 Ft. Clock No. 6774 Depth 4383 Ft. Clock No. 158

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 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

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Time Set Packer 11:12 A M

Tool Open I.F.P. From 11:15A M to 11:20 M Hr. 5 Min. From (B) 19 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 11:20A M. to 11:50 M. Hr. 30 Min. (D) 1294 P.S.I.

Tool Open F.F.P. From 11:50 M. to 1:50 M. 2 Hr. ____ Min. From (E) 21 P.S.I. To (F) 34 P.S.I.

Tool Closed F.C.I.P. From 1:50 M. to 2:20 M. Hr. 30 Min. (G) 835 P.S.I.

Initial Hydrostatic Pressure (A) 2405 P.S.I. Final Hydrostatic Pressure (H) 2396 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	1/4 In.		M.	
			M.	
			M.	

BLOW Weak increasing slightly Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes x No Recovery Total Ft. 120' gas in pipe; 10' free oil; 55' slightly oil cut mud Mud

Reversed Out ____ Yes x No Mud Type starch Viscosity 60 Weight 10/1 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 ____ ft. I.D. Drill Pipe ____ in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 18 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date December 4, 1965 — Test Ticket No. 5111

Recorder No. 1567 — Capacity 4300 — Location 4371 Ft.

Clock No. 6774 — Elevation 2220 Kelly Bushings — Well Temperature 120 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2405	P.S.I.	Opened Tool	11:12 A M		
B	First Initial Flow Pressure	19	P.S.I.	First Flow Pressure	5 Mins.	5	Mins.
C	First Final Flow Pressure	19	P.S.I.	Initial Closed-in Pressure	30 Mins.	27	Mins.
D	Initial Closed-in Pressure	1294	P.S.I.	Second Flow Pressure	120 Mins.	119	Mins.
E	Second Initial Flow Pressure	21	P.S.I.	Final Closed-in Pressure	30 Mins.	30	Mins.
F	Second Final Flow Pressure	34	P.S.I.				
G	Final Closed-in Pressure	835	P.S.I.				
H	Final Hydrostatic Mud	2396	P.S.I.				

PRESSURE BREAKDOWN

First Flow Press. Breakdown: 1 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: 23 Inc. of 5 mins. and a final inc. of 4 Min.

Final Shut-In Breakdown 10 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	19		0	19		0	21		0	34
P 2	5	19		3	369		5	21		3	45
P 3				6	1058		10	21		6	58
P 4				9	1176		15	21		9	84
P 5				12	1223		20	21		12	123
P 6				15	1249		25	21		15	183
P 7				18	1266		30	21		18	216
P 8				21	1277		35	21		21	328
P 9				24	1286		40	21		24	510
P10				27	1294		45	21		27	697
P11							50	21		30	835
P12							55	21			
P13							60	21			
P14							65	22			
P15							70	23			
P16							75	24			
P17							80	25			
P18							85	27			
P19							90	30			
P20							95	31			
							100	32			
							105	32			
							110	33			
							115	33			
							119	34			

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Wells #F-1

Elevation 2220 Kelly Bushings Formation Mississippi Ticket Number 5112

Date Dec.5,1965 Sec. 36 Twp. 30 Range 21 County Ness State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Dean Blagrave

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Formation Test No. 3 O.K. x Misrun Interval Tested From 4386 to 4391 Total Depth 4391'

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 4381 Ft. Size 6 3/4 Packer Depth 4386 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 5 Ft. Size 5½ OD

RECORDERS Depth 4376 Ft. Clock No. 6774 Depth 4388 Ft. Clock No. 158

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 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

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Time Set Packer 2:23A M

Tool Open I.F.P. From 2:25A M to 2:30 M Hr. 5 Min. From (B) 17 P.S.I. To (C) 17 P.S.I.

Tool Closed I.C.I.P. From 2:30 M. to 3:00 M. Hr. 30 Min. (D) 946 P.S.I.

Tool Open F.F.P. From 3:00A M. to 5:00 M. 2 Hr. Min. From (E) 23 P.S.I. To (F) 34 P.S.I.

Tool Closed F.C.I.P. From 5:00 M. to 5:30 M. Hr. 30 Min. (G) 92 P.S.I.

Initial Hydrostatic Pressure (A) 2428 P.S.I. Final Hydrostatic Pressure (H) 2414 P.S.I.

SURFACE INFORMATION	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak throughout Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 140' gas in pipe ; 1' free oil; 40' oil cut mud

Mud

Reversed Out Yes x No Mud Type starch Viscosity 58 Weight 10/1 Maximum Temp. 121 °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 ft. I.D. Drill Pipe in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 23 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date December 5, 1965 — Test Ticket No. 5112

Recorder No. 1567 — Capacity 4300 — Location 4376 Ft.

Clock No. 6774 — Elevation 2220 Kelly Bushings — Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2428 P.S.I.	Opened Tool	2:23 A M	
B First Initial Flow Pressure	17 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	17 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	946 P.S.I.	Second Flow Pressure	120 Mins.	117 Mins.
E Second Initial Flow Pressure	23 P.S.I.	Final Closed-in Pressure	30 Mins.	29 Mins.
F Second Final Flow Pressure	34 P.S.I.			
G Final Closed-in Pressure	92 P.S.I.			
H Final Hydrostatic Mud	2414 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	17
P 2 5	17
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 0 Min.

Point Minutes	Press.
0	17
3	62
6	177
9	391
12	555
15	665
18	753
21	827
24	876
27	920
30	946

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

Point Minutes	Press.
0	23
5	23
10	23
15	24
20	25
25	25
30	26
35	27
40	28
45	28
50	29
55	29
60	30
65	30
70	31
75	31
80	31
85	31
90	32
95	32
100	33
105	33
110	33
115	34
117	34

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

Point Minutes	Press.
0	34
3	36
6	38
9	45
12	51
15	60
18	64
21	71
24	77
27	84
29	92

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Wells F-1

Elevation 2220 Kelly Bushings Formation Mississippi Ticket Number 5113

Date Dec.5,1965 Sec. 36 Twp. 20 Range 21 County Ness State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Dean Blagrave

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Formation Test No. 4 O.K. x Misrun Interval Tested From 4391' to 4396' Total Depth 4396'

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 4386 Ft. Size 6 3/4 Packer Depth 4391 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 5 Ft. Size 5½ OD

RECORDERS Depth 4381 Ft. Clock No. 6774 Depth 4393 Ft. Clock No. 158

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 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

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Time Set Packer 3:17 P M

Tool Open I.F.P. From 3:20P M to 3:25 M Hr. 5 Min. From (B) 10 P.S.I. To (C) 10 P.S.I.

Tool Closed I.C.I.P. From 3:25 M. to 3:55 M. Hr. 30 Min. (D) 1165 P.S.I.

Tool Open F.F.P. From 3:55 M. to 5:55 M. 2 Hr. Min. From (E) 17 P.S.I. To (F) 28 P.S.I.

Tool Closed F.C.I.P. From 5:55 M. to 6:25 M. Hr. 30 Min. (G) 300 P.S.I.

Initial Hydrostatic Pressure (A) 2407 P.S.I. Final Hydrostatic Pressure (H) 2401 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	1/4 In.		M.	
			M.	
			M.	

BLOW Weak throughout Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 60' gas in pipe; 6' clean oil; 60' slightly oil cut mud

Mud

Reversed Out Yes x No Mud Type starch Viscosity 60 Weight 10.0 Maximum Temp. 121 °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 ft. I.D. Drill Pipe in Length Weight Pipe 1045 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 23 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date: December 5, 1965 — Test Ticket No. 5113

Recorder No. 1567 — Capacity 4300 — Location 4381 Ft.

Clock No. 6774 — Elevation 2220 Kelly Bushings — Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2407	P.S.I.	Opened Tool 3:17 P	M
B First Initial Flow Pressure	10	P.S.I.	First Flow Pressure 5 Mins.	5 Mins.
C First Final Flow Pressure	10	P.S.I.	Initial Closed-in Pressure 30 Mins.	29 Mins.
D Initial Closed-in Pressure	1165	P.S.I.	Second Flow Pressure 120 Mins.	120 Mins.
E Second Initial Flow Pressure	17	P.S.I.	Final Closed-in Pressure 30 Mins.	29 Mins.
F Second Final Flow Pressure	28	P.S.I.		
G Final Closed-in Pressure	300	P.S.I.		
H Final Hydrostatic Mud	2401	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	10
P 2 5	10
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.

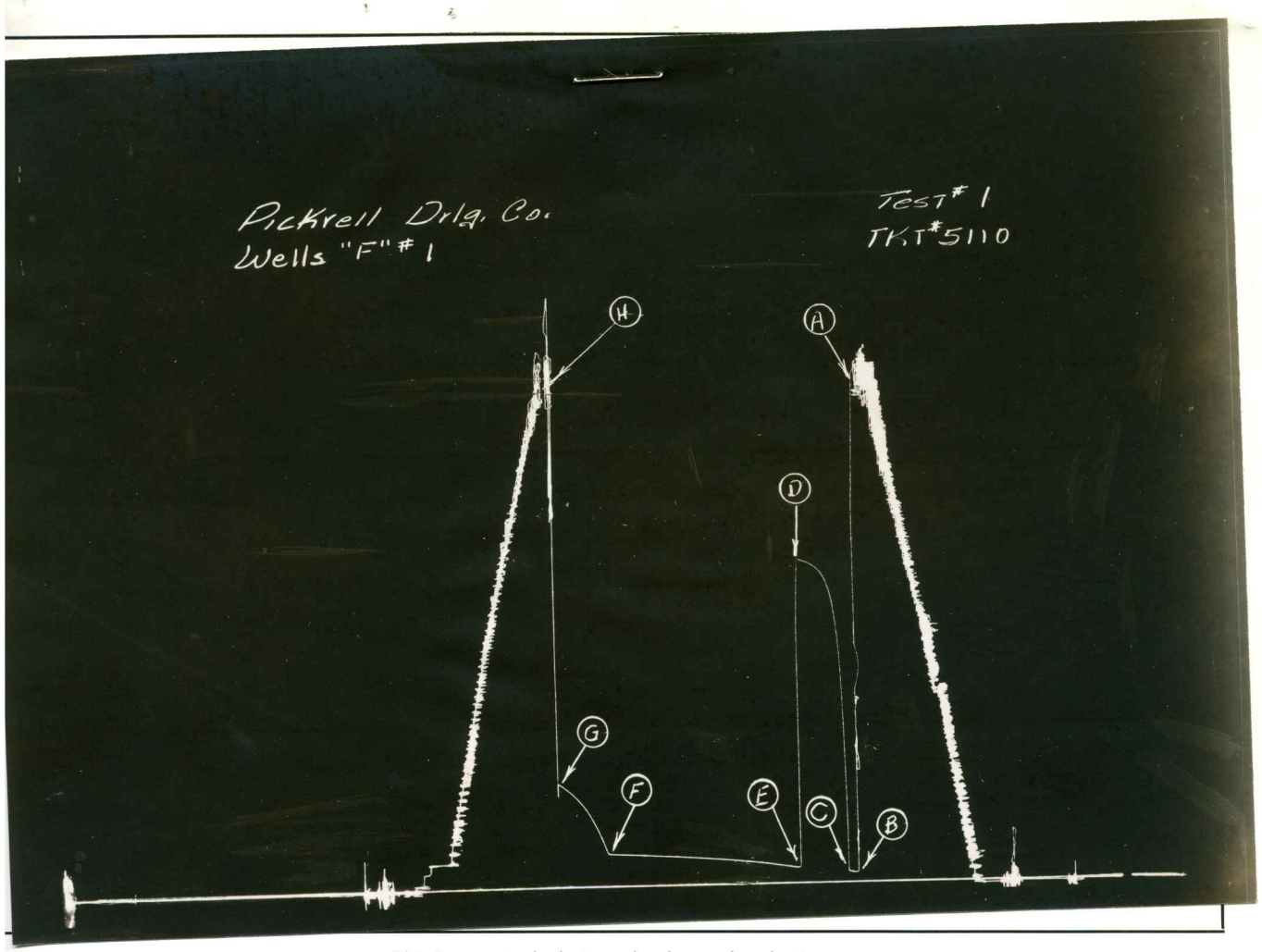
Point Minutes	Press.
0	10
3	417
6	654
9	812
12	920
15	1004
18	1049
21	1092
24	1126
27	1152
29	1165

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	17
5	17
10	17
15	17
20	17
25	18
30	18
35	18
40	19
45	19
50	20
55	20
60	21
65	21
70	23
75	23
80	23
85	24
90	25
95	26
100	26
105	27
110	27
115	28
120	28

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

Point Minutes	Press.
0	28
3	36
6	49
9	64
12	77
15	101
18	133
21	177
24	220
27	261
29	300

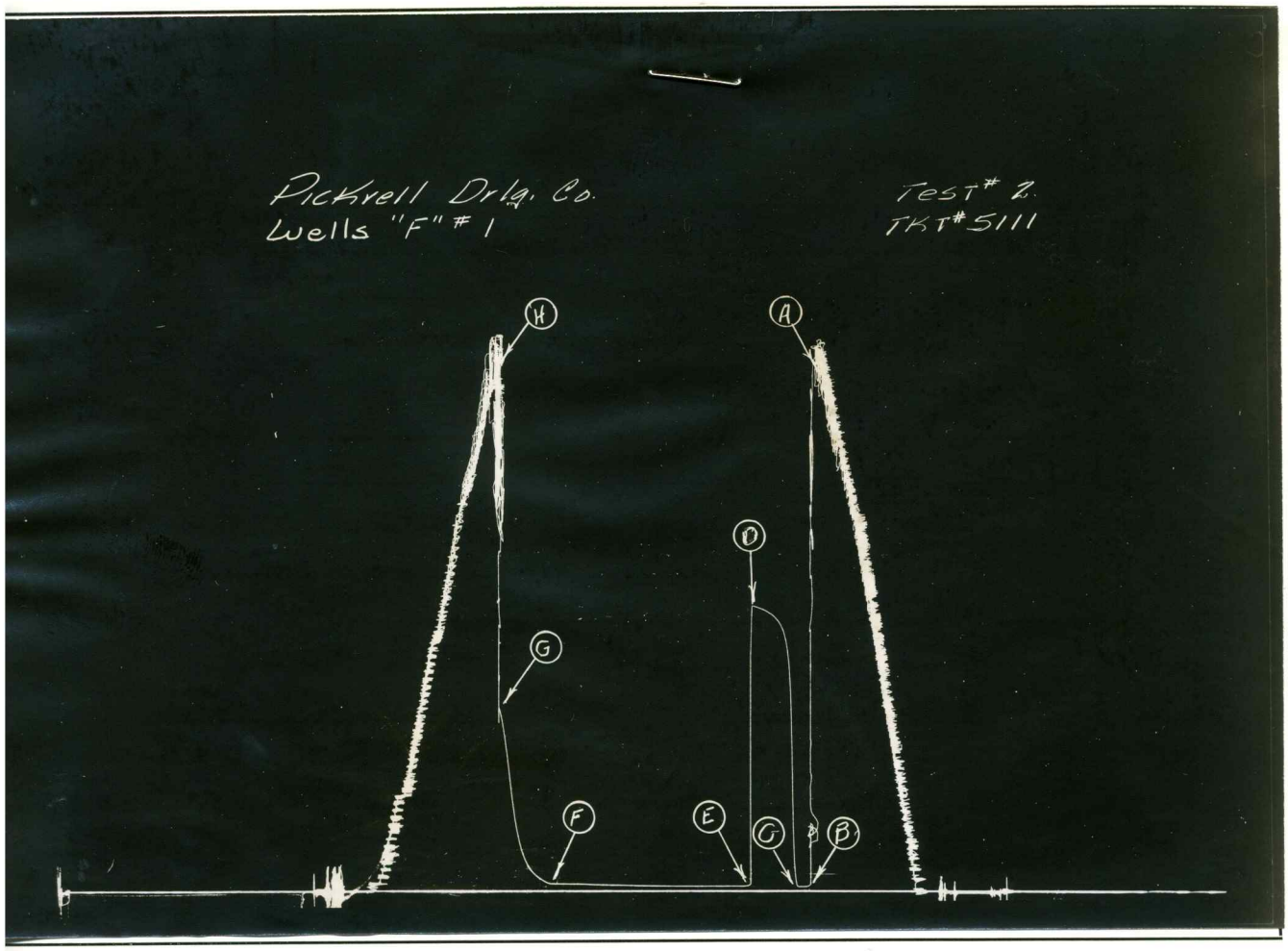


This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2392 PSI
(B)	First Initial Flow Pressure	49 PSI
(C)	First Final Flow Pressure	54 PSI
(D)	Initial Closed-in Pressure	1528 PSI
(E)	Second Initial Flow Pressure	77 PSI
(F)	Second Final Flow Pressure	153 PSI
(G)	Final Closed-in Pressure	497 PSI
(H)	Final Hydrostatic Mud	2368 PSI

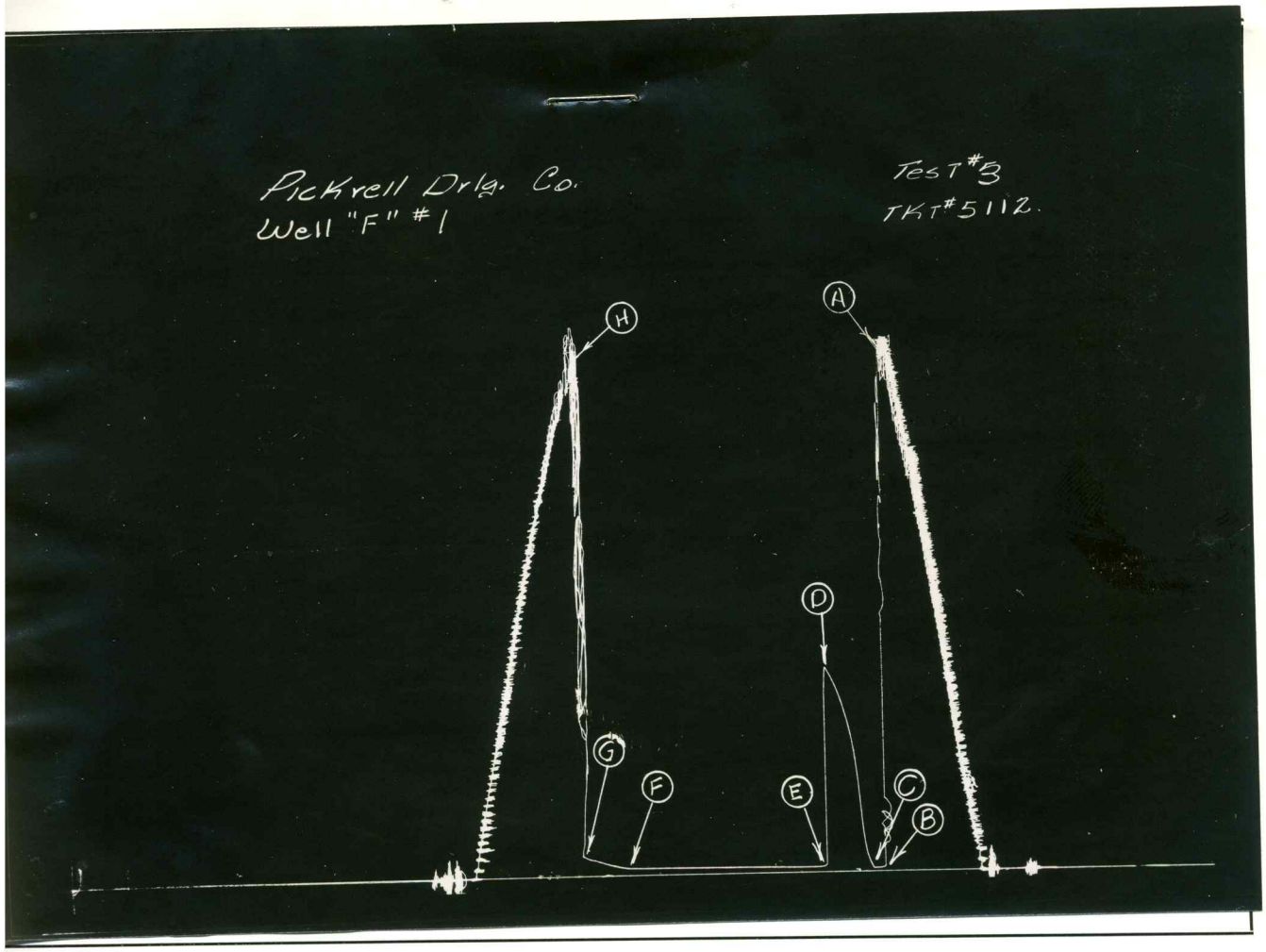
COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. WELLS #F-1 SEC. 36 TWP. 20 RGE. 21 TEST NO. 1 DATE 12-3-65

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. WELLS #F-1 SEC. 36 TWP. 20 RGE. 21 TEST NO. 2 DATE 12-8-65



This is an actual photograph of recorder chart.

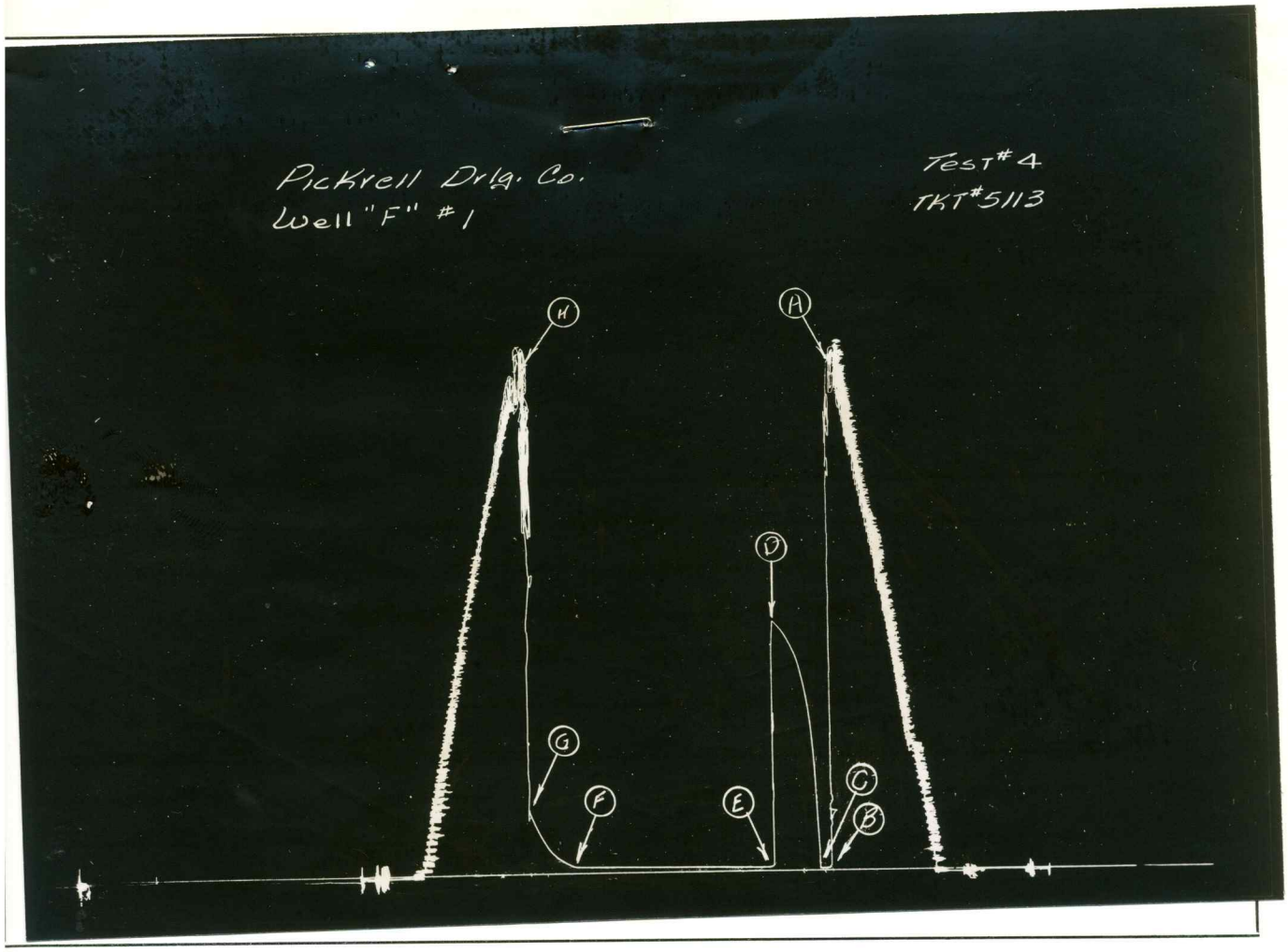
POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2405 PSI
(B)	First Initial Flow Pressure	19 PSI
(C)	First Final Flow Pressure	19 PSI
(D)	Initial Closed-in Pressure	1294 PSI
(E)	Second Initial Flow Pressure	21 PSI
(F)	Second Final Flow Pressure	34 PSI
(G)	Final Closed-in Pressure	835 PSI
(H)	Final Hydrostatic Mud	2396 PSI



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2428 PSI
(B)	First Initial Flow Pressure	17 PSI
(C)	First Final Flow Pressure	17 PSI
(D)	Initial Closed-in Pressure	946 PSI
(E)	Second Initial Flow Pressure	23 PSI
(F)	Second Final Flow Pressure	34 PSI
(G)	Final Closed-in Pressure	92 PSI
(H)	Final Hydrostatic Mud	2414 PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. WELLS #F-1 SEC. 36 TWP. 20 RGE. 21 TEST NO. 3 DATE 12-5-65



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2407 PSI
(B)	First Initial Flow Pressure	10 PSI
(C)	First Final Flow Pressure	10 PSI
(D)	Initial Closed-in Pressure	1165 PSI
(E)	Second Initial Flow Pressure	17 PSI
(F)	Second Final Flow Pressure	28 PSI
(G)	Final Closed-in Pressure	300 PSI
(H)	Final Hydrostatic Mud	2401 PSI

COMPANY PICKRELL DRILLING COMPANY LEASE AND WELL NO. WELLS #F-1 SEC. 36 TWP. 20 RGE. 21 TEST NO. 4 DATE 12-5-65