Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Fink #2

Elevation 1433 Derrick Floor Formation Kansas City Ticket Number 8804

Date May 30,1966 Sec. 8 Twp. 30s Range 5w County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Norman Allen

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Formation Test No. 2 O.K. #1 Misrun #1 Interval Tested From 3534' to 3545' Total Depth 3545'

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

Packer Depth 3529 Ft. Size 6 3/4 Packer Depth 3534 Ft. Size 6 3/4

Straddle Yes No no 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 3537 Ft. Clock No. 6861 Depth 3541 Ft. Clock No. 6898

Pressure Readings

Top Make Kuster Cap. 3150 No. 1560 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 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 8:48 A M

Tool Open I.F.P. From 8:50 M to 9:00 M Hr. 10 Min. From (B) 17 P.S.I. To (C) 42 P.S.I.

Tool Closed I.C.I.P. From 9:00 M. to 9:30 M. Hr. 30 Min. (D) 1506 P.S.I.

Tool Open F.F.P. From 9:30 M. to 11:00 M. 1 Hr. 30 Min. From (E) 56 P.S.I. To (F) 293 P.S.I.

Tool Closed F.C.I.P. From 11:00 M. to 11:30 M. Hr. 30 Min. (G) 1503 P.S.I.

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

SURFACE INFORMATION	Size Choke 3/4 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 no No Recovery Total Ft. 200' gas in pipe;40' slightly oil and gas cut muddy water

540' very slightly oil and gas cut water. Mud

Reversed Out Yes no No Mud Type starch Viscosity 44 Weight 9.9 Maximum Temp. 128 °F

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

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

Length Drill Pipe 2314 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 2100 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 DST #1 3534' to 3545' Misrun. Tool would not go to bottom(Tool lacked 100' of going to bottom.)

WESTERN TESTING CO., INC.
Pressure Data

Date May 30,1966

Test Ticket No. 8804

Recorder No. 1560 Capacity 3150 Location 3537 Ft.

Clock No. 6861 Elevation 1433 Derrick Floor Well Temperature 128 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1945	P.S.I.
B	First Initial Flow Pressure	17	P.S.I.
C	First Final Flow Pressure	42	P.S.I.
D	Initial Closed-in Pressure	1506	P.S.I.
E	Second Initial Flow Pressure	56	P.S.I.
F	Second Final Flow Pressure	293	P.S.I.
G	Final Closed-in Pressure	1503	P.S.I.
H	Final Hydrostatic Mud	1945	P.S.I.

	Time Given		Time Computed	
Opened Tool	8:50 A	M	8:50	
First Flow Pressure	10	Mins.	10	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	90	Mins.	92	Mins.
Final Closed-in Pressure	30	Mins.	33	Mins.

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 2 Inc. of 5 mins. and a final inc. of = Min.

Point	Mins.	Press.
P 1	0	17
P 2	5	27
P 3	10	42
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	42
3	1463
6	1493
9	1501
12	1504
15	1506
18	1506
21	1506
24	1506
27	1506
30	1506

Second Flow Pressure

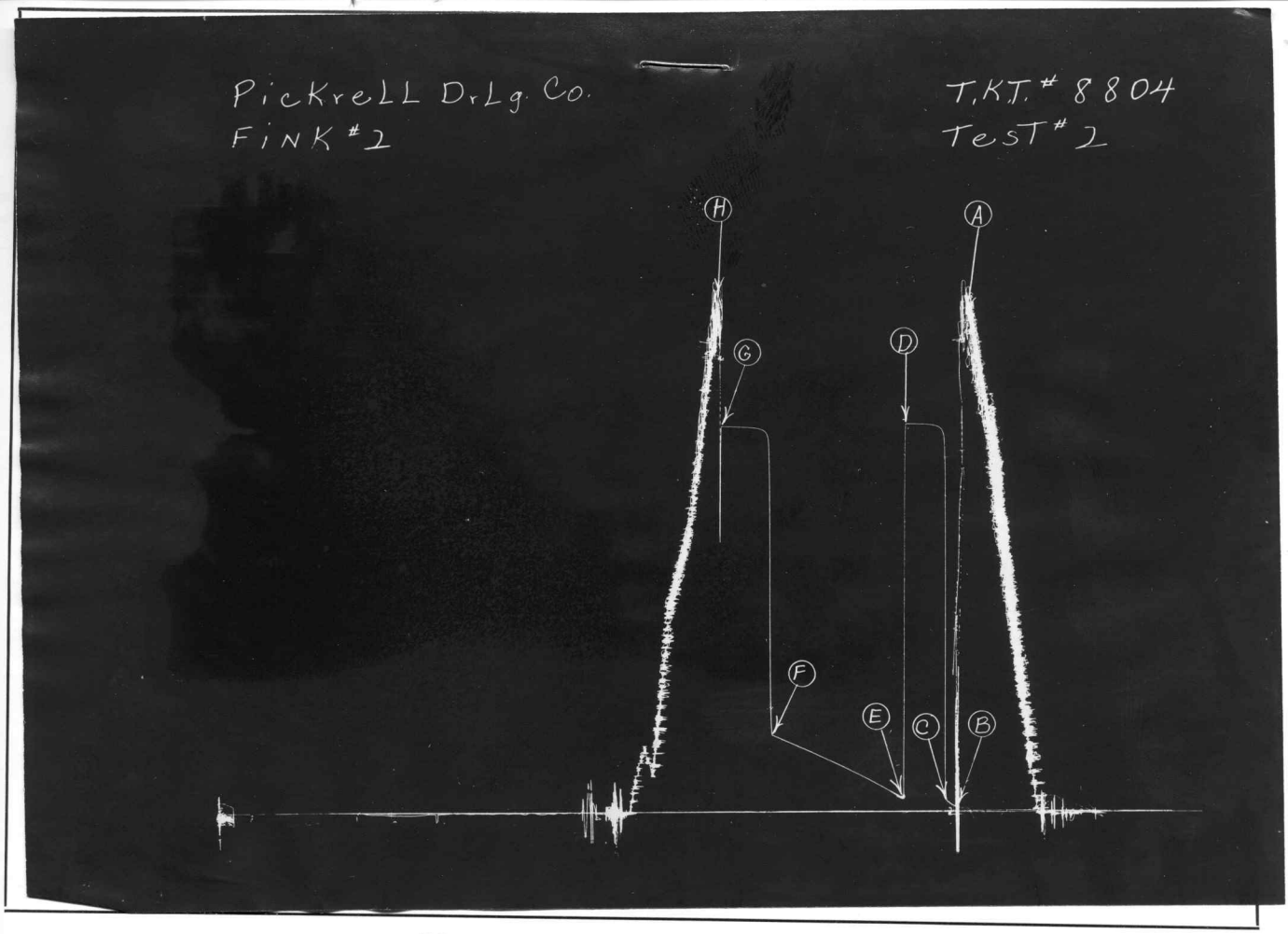
Breakdown: 18 Inc. of 5 mins. and a final inc. of 2 Min.

Point Minutes	Press.
0	56
5	58
10	72
15	89
20	105
25	117
30	133
35	147
40	163
45	174
50	196
55	201
60	212
65	225
70	239
75	250
80	263
85	277
90	288
92	293

Final Shut-In

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

Point Minutes	Press.
0	293
3	1449
6	1479
9	1498
12	1501
15	1503
18	1503
21	1503
24	1503
27	1503
30	1503
33	1503



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	1945 PSI
(B)	First Initial Flow Pressure	17 PSI
(C)	First Final Flow Pressure	42 PSI
(D)	Initial Closed-in Pressure	1506 PSI
(E)	Second Initial Flow Pressure	56 PSI
(F)	Second Final Flow Pressure	293 PSI
(G)	Final Closed-in Pressure	1503 PSI
(H)	Final Hydrostatic Mud	1945 PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. FINK #2 SEC. 8 TWP. 30S RGE. 5W TEST NO. 2 DATE 5-30-66

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Fink #2

Elevation 1433 Derrick Floor Formation Kansas City Ticket Number 8805

Date May 31,1966 Sec. 8 Twp. 30s Range 5w County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Norman Allen

Formation Test No. 3 O.K. #2 Misrun #1 Interval Tested From 3606' to 3618' Total Depth ~~3618~~ 3618'

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

Packer Depth 3601 Ft. Size 6 3/4 Packer Depth 3606 Ft. Size 6 3/4

Straddle Yes No no 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

Pressure Readings

RECORDERS Depth 3600 Ft. Clock No. 6861 Depth 3614 Ft. Clock No. 6893

Top Make Kuster Cap. 3150 No. 1560 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 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 4:58 A M

Tool Open I.F.P. From ======= M to ======= M Hr. Min. From (B) ==== P.S.I. To (C) ==== P.S.I.

Tool Closed I.C.I.P. From ========= M. to ========= M. Hr. Min. (D) None Taken SEE REMARKS P.S.I.

Tool Open F.F.P. From 5:00 M. to 6:00 M. 1 Hr. Min. From (E) 15 P.S.I. To (F) 66 P.S.I.

Tool Closed F.C.I.P. From 6:00 M. to 6:30 M. Hr. 30 Min. (G) 1446 P.S.I.

Initial Hydrostatic Pressure (A) 1980 P.S.I. Final Hydrostatic Pressure (H) 1948 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 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 no No Recovery Total Ft. 10' slightly oil cut mud;100' water

Mud

Reversed Out Yes no No Mud Type starch Viscosity 46 Weight 9.8 Maximum Temp. 128 °F

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

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

Length Drill Pipe 2386 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1200 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 Lost partial returns 12 stands off bottom and during test cycle; spudded through bridge 100' off bottom.

WESTERN TESTING CO., INC.

Pressure Data

Date May 31,1966 Test Ticket No. 8805'

Recorder No. 1560 Capacity 3150 Location 3600 Ft.

Clock No. 6861 Elevation 1433 Derrick Floor Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1980 P.S.I.	Opened Tool	5:00 A M	
B First Initial Flow Pressure	== P.S.I.	First Flow Pressure	== Mins.	Mins.
C First Final Flow Pressure	== P.S.I.	Initial Closed-in Pressure	== Mins.	Mins.
D Initial Closed-in Pressure	== P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	15 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	66 P.S.I.			
G Final Closed-in Pressure	1446 P.S.I.			
H Final Hydrostatic Mud	1948 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1	
P 2	
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: ____ Inc.
of ____ mins. and a
final inc. of ____ Min.

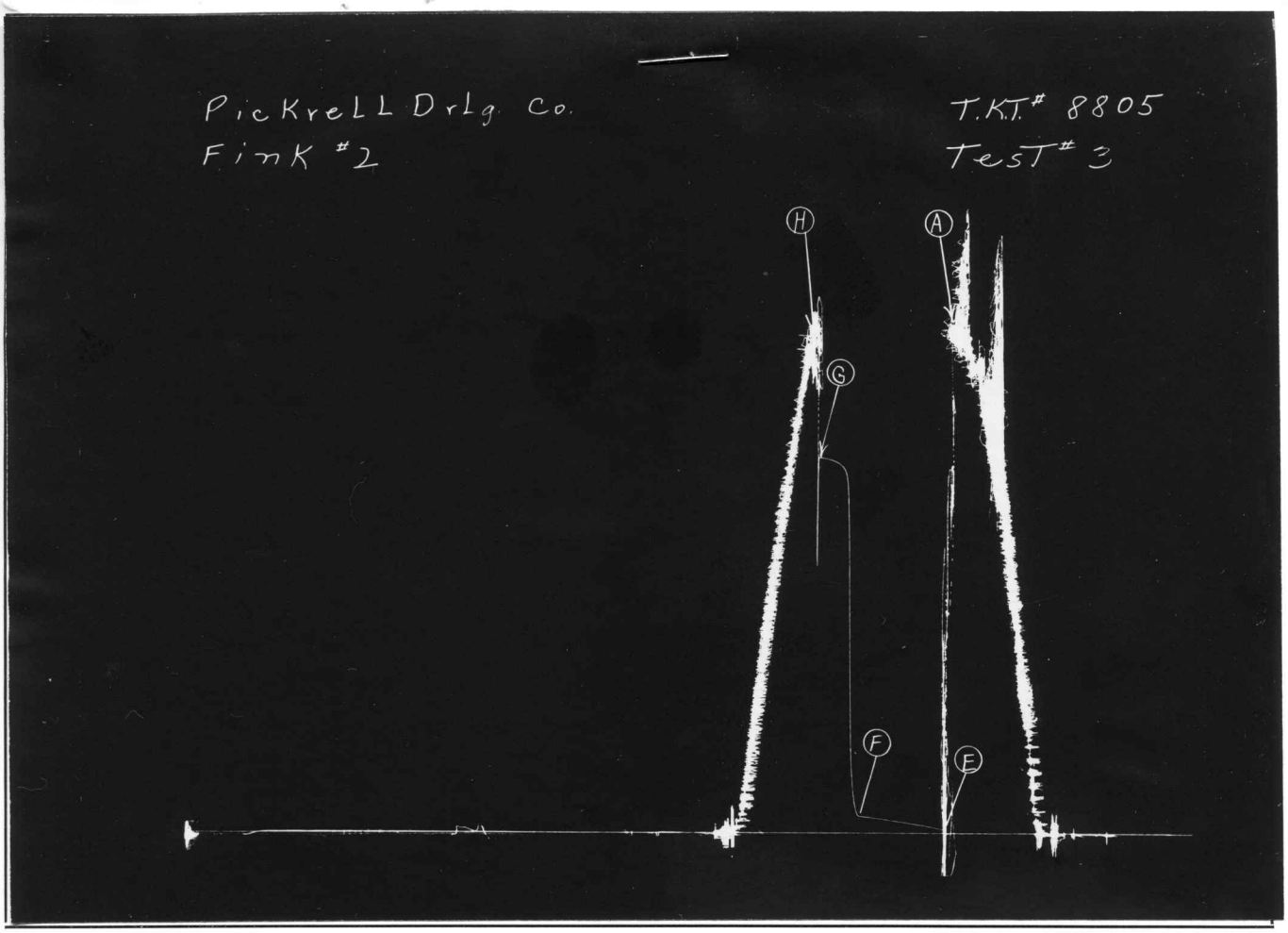
Point Minutes	Press.

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

Point Minutes	Press.
0	15
5	18
10	25
15	29
20	33
25	37
30	43
35	47
40	52
45	55
50	60
55	64
60	66

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

Point Minutes	Press.
0	66
3	129
6	524
9	1376
12	1409
15	1425
18	1432
21	1437
24	1442
27	1444
30	1446



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1980	PSI
(B)	First Initial Flow Pressure	==	PSI
(C)	First Final Flow Pressure	==	PSI
(D)	Initial Closed-in Pressure	==	PSI
(E)	Second Initial Flow Pressure	15	PSI
(F)	Second Final Flow Pressure	66	PSI
(G)	Final Closed-in Pressure	1446	PSI
(H)	Final Hydrostatic Mud	1948	PSI

COMPANY PICKRELL DRILLING COMPANY LEASE AND WELL NO. FINK #2 SEC. 8 TWP. 30s RGE. 5w TEST NO. 3 DATE 5-31-60

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Fink #2

Elevation 1433 Derrick Floor Formation Kansas City Ticket Number 8806

Date May 31,1966 Sec. 8 Twp. 30s Range 5w County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Norman Allen

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Formation Test No. 4 O.K. #3 Misrun #1 Interval Tested From 3628' to 3643' Total Depth 3643'

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

Packer Depth 3623 Ft. Size 6 3/4 Packer Depth 3628 Ft. Size 6 3/4

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

Packer Depth Ft. Size

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

RECORDERS Depth 3634 Ft. Clock No. 6861 Depth 3638 Ft. Clock No. 6893

Pressure Readings

Top Make Kuster Cap. 3150 No. 1560 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 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 3:51 P M

Tool Open I.F.P. From 3:53 M to 4:00 M Hr. 7 Min. From (B) 27 P.S.I. To (C) 31 P.S.I.

Tool Closed I.C.I.P. From 4:00 M. to 4:30 M. Hr. 30 Min. (D) 1415 P.S.I.

Tool Open F.F.P. From 4:30 M. to 6:00 M. 1 Hr. 30 Min. From (E) 44 P.S.I. To (F) 135 P.S.I.

Tool Closed F.C.I.P. From 6:00 M. to 6:30 M. Hr. 30 Min. (G) 1382 P.S.I.

Initial Hydrostatic Pressure (A) 2003 P.S.I. Final Hydrostatic Pressure (H) 1986 P.S.I.

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

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

Did Well Flow Yes no No Recovery Total Ft. 60' gas in pipe;60' watery mud with scum of oil; 180' muddy water. Mud

Reversed Out Yes no No Mud Type starch Viscosity 50 Weight 9.8 Maximum Temp. 133 °F

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

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

Length Drill Pipe 2408 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1200 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date May 31,1966 Test Ticket No. 8806

Recorder No. 1560 Capacity 3150 Location 3634 Ft.

Clock No. 6861 Elevation 1433 Derrick Floor Well Temperature 133 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2003	P.S.I.	Opened Tool	3:53 PM	
B	First Initial Flow Pressure	27	P.S.I.	First Flow Pressure	7 Mins.	7 Mins.
C	First Final Flow Pressure	31	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1415	P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E	Second Initial Flow Pressure	44	P.S.I.	Final Closed-in Pressure	30 Mins.	36 Mins.
F	Second Final Flow Pressure	135	P.S.I.			
G	Final Closed-in Pressure	1382	P.S.I.			
H	Final Hydrostatic Mud	1986	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	27
P 2 5	27
P 3 7	31
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: 6 Inc.
of 5 mins. and a
final inc. of = Min.

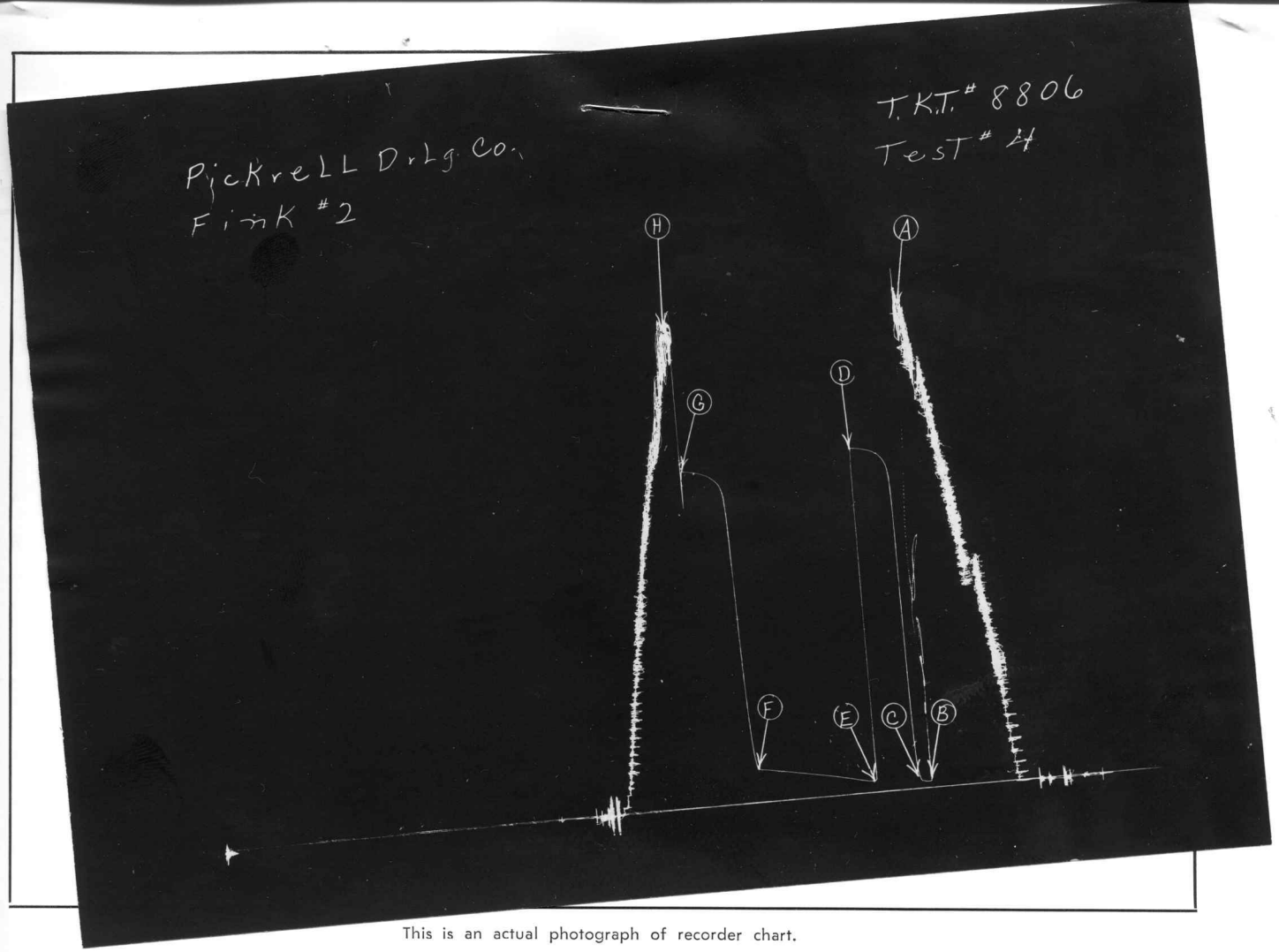
Point Minutes	Press.
0	31
3	144
6	514
9	1353
12	1380
15	1391
18	1399
21	1404
24	1409
27	1412
30	1415

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

Point Minutes	Press.
0	44
5	48
10	51
15	58
20	64
25	69
30	78
35	83
40	87
45	93
50	98
55	105
60	109
65	114
70	119
75	124
80	130
85	135

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

Point Minutes	Press.
0	135
3	228
6	539
9	1274
12	1320
15	1339
18	1350
21	1358
24	1366
27	1371
30	1374
33	1376
36	1382



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2003 PSI
(B)	First Initial Flow Pressure	27 PSI
(C)	First Final Flow Pressure	31 PSI
(D)	Initial Closed-in Pressure	1415 PSI
(E)	Second Initial Flow Pressure	44 PSI
(F)	Second Final Flow Pressure	135 PSI
(G)	Final Closed-in Pressure	1382 PSI
(H)	Final Hydrostatic Mud	1986 PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. FINK #2 SEC. 8 TWP. 30S RGE. 5W TEST NO. 4 DATE 5-31-6

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

Company Pickrell Drilling Company Lease & Well No. Fink #2

Elevation 1433 Derrick Floor Formation Kansas City Ticket Number 8807

Date June 1,1966 Sec. 8 Twp. 30s Range 5w County Kingman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Norman Allen

Formation Test No. 5 O.K. #4 Misrun #1 Interval Tested From 3664' to 3680' Total Depth 3680'

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

Packer Depth 3659 Ft. Size 6 3/4 Packer Depth 3664 Ft. Size 6 3/4

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

Packer Depth Ft. Size

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

RECORDERS Depth 3671 Ft. Clock No. 6861 Depth 3675 Ft. Clock No. 6893

Top Make Kuster Cap. 3150 No. 1560 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~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 6:18 A M

Tool Open I.F.P. From 6:20 M to 6:30 M Hr. 5 Min. From (B) 43 P.S.I. To (C) 49 P.S.I.

Tool Closed I.C.I.P. From 6:30 M. to 7:00 M. Hr. 30 Min. (D) 1586 P.S.I.

Tool Open F.F.P. From 7:00 M. to 8:30 M. 1 Hr. 30 Min. From (E) 64 P.S.I. To (F) 155 P.S.I.

Tool Closed F.C.I.P. From 8:30 M. to 9:00 M. Hr. 30 Min. (G) 1581 P.S.I.

Initial Hydrostatic Pressure (A) 1957 P.S.I. Final Hydrostatic Pressure (H) 1945 P.S.I.

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

M.

M.

M.

BLOW Fair throughout test.

Did Well Flow Yes no No Recovery Total Ft. 30' 550' gas in pipe;slightly oil and gas cut mud; 60' very slightly oil cut water;180' water. Bottom Choke Size 3/4 In.

Reversed Out Yes no No Mud Type starch Viscosity 50 Weight 9.8 Maximum Temp. 133 °F Mud

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

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

Length Drill Pipe 2444 ft. I.D. Drill Pipe in Length Weight Pipe 1200 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date June 1,1966

Test Ticket No. 8807

Recorder No. 1560 Capacity 3150 Location 3671 Ft.

Clock No. 6861 Elevation 1433 Derrick Floor Well Temperature 133 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	1957	P.S.I.	Opened Tool	6:20	M	6:20	
B	First Initial Flow Pressure	43	P.S.I.	First Flow Pressure	5	Mins.	5	Mins.
C	First Final Flow Pressure	49	P.S.I.	Initial Closed-in Pressure	30	Mins.	29	Mins.
D	Initial Closed-in Pressure	1586	P.S.I.	Second Flow Pressure	90	Mins.	90	Mins.
E	Second Initial Flow Pressure	64	P.S.I.	Final Closed-in Pressure	30	Mins.	33	Mins.
F	Second Final Flow Pressure	155	P.S.I.					
G	Final Closed-in Pressure	1581	P.S.I.					
H	Final Hydrostatic Mud	1945	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	43
P 2 5	49
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 3 Min.

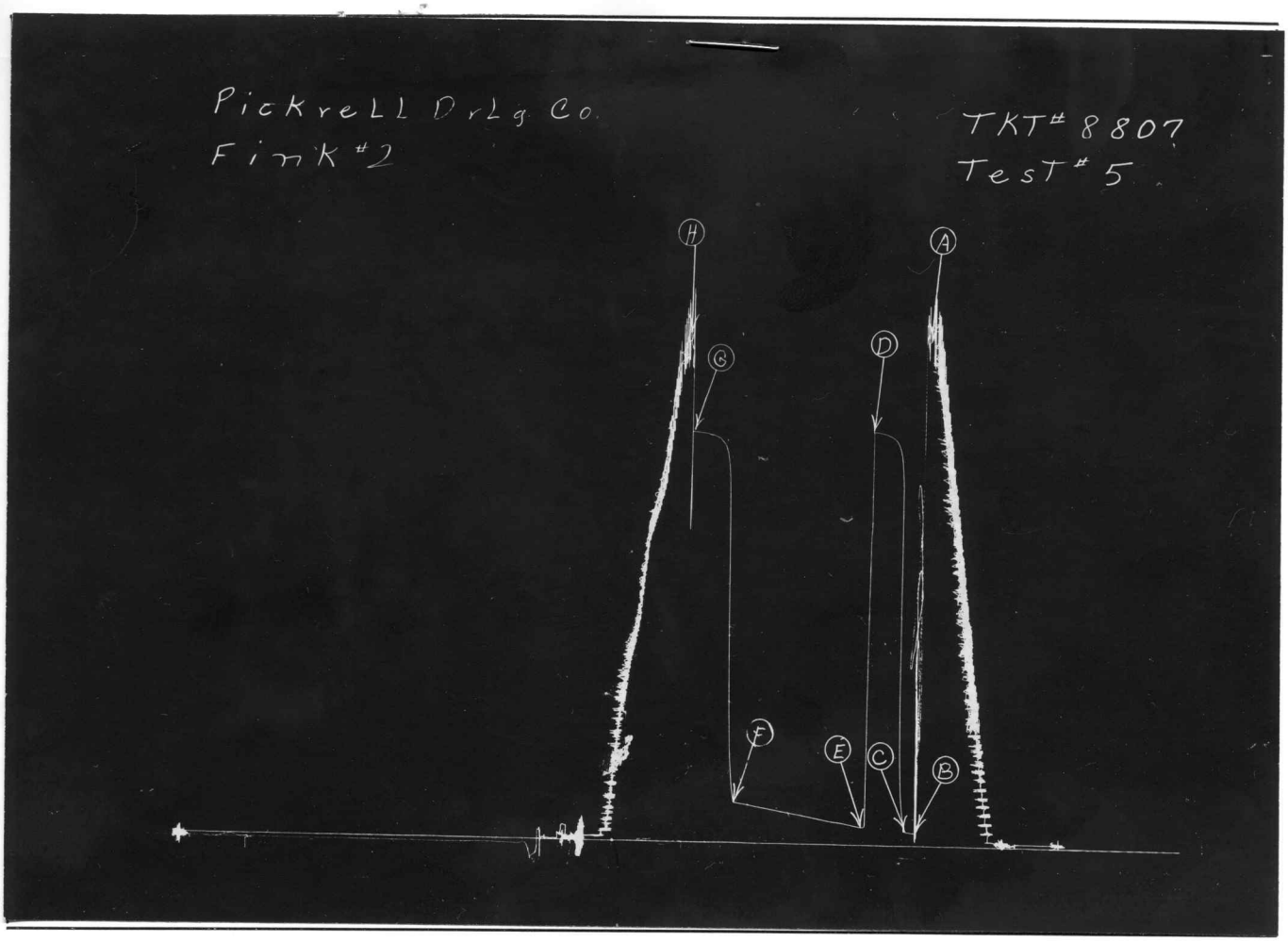
Point Minutes	Press.
0	49
3	133
6	526
9	1424
12	1541
15	1567
18	1578
21	1581
24	1584
27	1586
29	1586

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

Point Minutes	Press.
0	64
5	68
10	73
15	77
20	84
25	87
30	92
35	97
40	103
45	108
50	113
55	117
60	121
65	127
70	133
75	138
80	143
85	148
90	155

Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of = Min.

Point Minutes	Press.
0	155
3	290
6	813
9	1475
12	1537
15	1556
18	1564
21	1570
24	1575
27	1578
30	1581
33	1581



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	1957 PSI
(B)	First Initial Flow Pressure	43 PSI
(C)	First Final Flow Pressure	40 PSI
(D)	Initial Closed-in Pressure	1586 PSI
(E)	Second Initial Flow Pressure	64 PSI
(F)	Second Final Flow Pressure	155 PSI
(G)	Final Closed-in Pressure	1581 PSI
(H)	Final Hydrostatic Mud	1945 PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. FINK #2 SEC. 8 TWP. 30S RGE. 5W TEST NO. 5 DATE 6-1-66