WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 SWift 3-7903

Company Pickrell Drilling Company Lease & Well No. Wells #D-2

Elevation 2236 Kelly Bushing Formation Mississippi Ticket Number 5196

Date April 28,1966 Sec. 25 Twp. 20s Range 21w County Ness State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Dean Blagrave

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Formation Test No. 1 O.K. x Misrun Interval Tested From 4337' to 4376' Total Depth 4376'

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 4332 Ft. Size 6 3/4 Packer Depth 4337 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 39 Ft. Size 5½ OD

RECORDERS Depth 4367 Ft. Clock No. 6892 Depth 4370 Ft. Clock No. 6774

Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4300 No. 1567 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 4:23A M

Tool Open I.F.P. From 4:25 M to 4:30 M Hr. 5 Min. From (B) 83 P.S.I. To (C) 158 P.S.I.

Tool Closed I.C.I.P. From 4:30 M. to 5:00 M. Hr. 30 Min. (D) 1250 P.S.I.

Tool Open F.F.P. From 5:00 M. to 7:00 M. 2 Hr. Min. From (E) 199 P.S.I. To (F) 661 P.S.I.

Tool Closed F.C.I.P. From 7:00 M. to 7:30 M. Hr. 30 Min. (G) 1064 P.S.I.

Initial Hydrostatic Pressure (A) 2300 P.S.I. Final Hydrostatic Pressure (H) 2282 P.S.I.

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

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

Did Well Flow Yes x No Recovery Total Ft. 2285' gas in pipe;1020' clean gassy oil;480' slightly muddy oil; no water ; 240' very heavy oil cut mud Mud

Reversed Out Yes x No Mud Type starch Viscosity 40 Weight 9.7 Maximum Temp. 119 °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 3.8 in Length Weight Pipe 1035 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 57 ft.

Remarks SP Gravity 40° corrected

WESTERN TESTING CO., INC.
Pressure Data

Date April 28, 1966 Test Ticket No. 5196

Recorder No. 2606 Capacity 4150 Location 4367 Ft.

Clock No. 6892 Elevation 2236 Kelly Bushings Well Temperature 119 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2300	P.S.I.
B	First Initial Flow Pressure	83	P.S.I.
C	First Final Flow Pressure	156	P.S.I.
D	Initial Closed-in Pressure	1250	P.S.I.
E	Second Initial Flow Pressure	661	P.S.I.
F	Second Final Flow Pressure	1064	P.S.I.
G	Final Closed-in Pressure	2282	P.S.I.
H	Final Hydrostatic Mud		P.S.I.

	Time Given		Time Computed	
Opened Tool	4:25 A	M	4:25	
First Flow Pressure	5	Mins.	6	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	120	Mins.	119	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 0 Min.

Point Mins.	Press.
P 1 0	83
P 2 5	156
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.

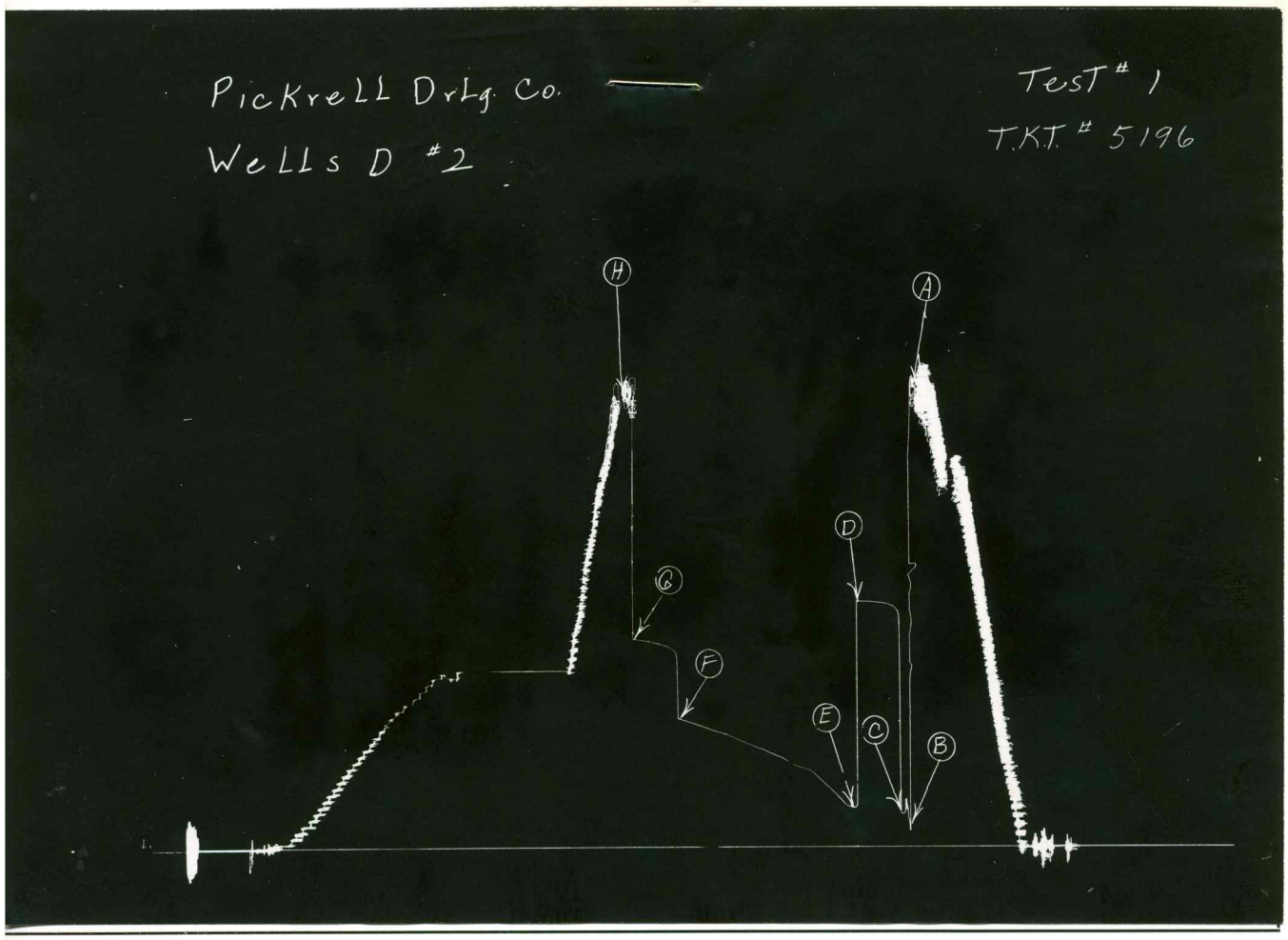
Point Minutes	Press.
0	156
3	1194
6	1223
9	1233
12	1238
15	1242
18	1244
21	1246
24	1248
27	1250
30	1250

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

Point Minutes	Press.
0	199
5	205
10	241
15	287
20	324
25	357
30	395
35	408
40	418
45	441
50	462
55	479
60	497
65	514
70	528
75	545
80	562
85	576
90	591
95	603
100	615
105	628
110	640
115	655
119	661

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

Point Minutes	Press.
0	661
3	1008
6	1022
9	1033
12	1041
15	1045
18	1051
21	1053
24	1060
27	1062
30	1064



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2300 PSI
(B)	First Initial Flow Pressure	83 PSI
(C)	First Final Flow Pressure	156 PSI
(D)	Initial Closed-in Pressure	1250 PSI
(E)	Second Initial Flow Pressure	199 PSI
(F)	Second Final Flow Pressure	661 PSI
(G)	Final Closed-in Pressure	1064 PSI
(H)	Final Hydrostatic Mud	2282 PSI

COMPANY PICKRELL DIRLLING CO. LEASE AND WELL NO. WELLS #D-2 SEC. 25 TWP. 20s RGE. 21w TEST NO. 1 DATE 4-28-66