WESTERN TESTERS

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

Company Pickrell Drilling Company Lease & Well No. Sweeny "E" #1

Elevation 2276 Derrick Floor Formation Mississippian Effective Pay Ft. Ticket No. 10878

Date 9-18-68 Sec. 26 Twp. 22s Range 21w County Hodgeman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

Formation Test No. 1 O.K. X Misrun Interval Tested From 4475' to 4514' Total Depth 4514'

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

Packer Depth 4470 Ft. Size 6 3/4" Packer Depth 4475 Ft. Size 6 3/4"

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

Packer Depth Ft. Size

Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 39 Ft. Size 5 1/2" OD

RECORDERS Depth 4506 Ft. Clock No. 6897 Depth 4509 Ft. Clock No. 8377

Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 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 12:20 A. M

Tool Open I.F.P. From 12:25 M. to 12:32A. M. Hr. 7 Min. From (B) 19 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 12:32 M. to 1:02A. M. Hr. 30 Min. (D) 1321 P.S.I.

Tool Open F.F.P. From 1:02 M. to 2:02A. M. 1 Hr. Min. From (E) 29 P.S.I. To (F) 41 P.S.I.

Tool Closed F.C.I.P. From 2:02 M. to 3:02A. M. 1 Hr. Min. (G) 1210 P.S.I.

Initial Hydrostatic Pressure (A) 2378 P.S.I. Final Hydrostatic Pressure (H) 2298 P.S.I.

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

BLOW Weak for 15 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 65 feet mud with few spots of oil

Reversed Out Yes X No Mud Type Starch Viscosity 54 Weight 9.9 Water Loss 7.6 cc. Maximum Temp. 122 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 3652 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 803 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 59 ft.

Remarks Open tool for final flow - No blow - Flush in 30 minutes - Weak for 15 minutes - died

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 9-18-68 Test Ticket No. 10878

Recorder No. 3085 Capacity 4500 Location 4506 Ft.

Clock No. 6897 Elevation 2276 Derrick Floor Well Temperature 122 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2378	P.S.I.
B	First Initial Flow Pressure	19	P.S.I.
C	First Final Flow Pressure	19	P.S.I.
D	Initial Closed-in Pressure	1321	P.S.I.
E	Second Initial Flow Pressure	29	P.S.I.
F	Second Final Flow Pressure	41	P.S.I.
G	Final Closed-in Pressure	1210	P.S.I.
H	Final Hydrostatic Mud	2298	P.S.I.

	Time Given	Time Computed
Opened Tool	12:25 A. M	
First Flow Pressure	7 Mins.	7 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	60 Mins.	58 Mins.
Final Closed-in Pressure	60 Mins.	58 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	19
P 2 5	19
P 3 7	19
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.

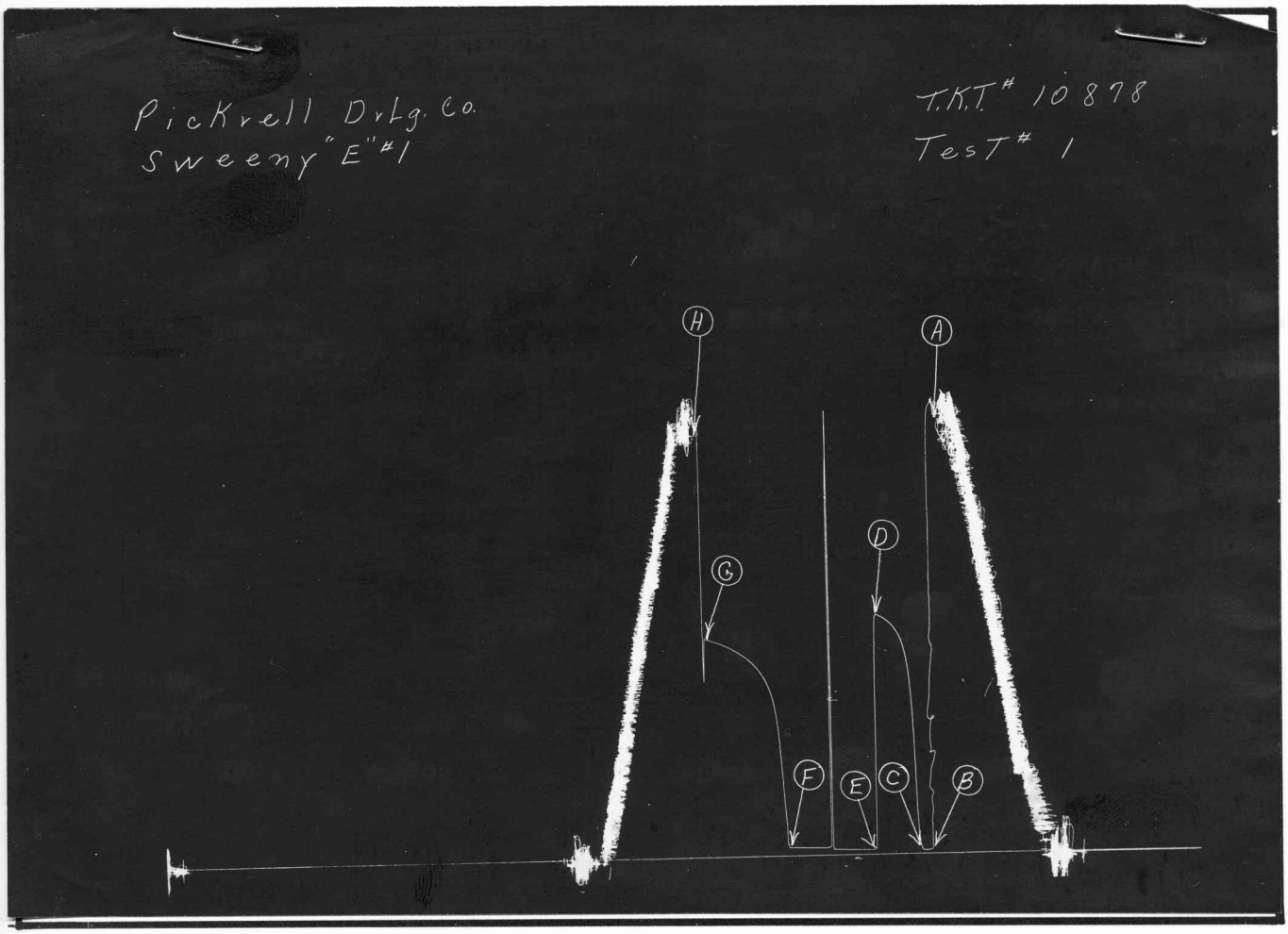
Point Minutes	Press.
0	19
3	184
6	722
9	979
12	1124
15	1205
18	1242
21	1275
24	1293
27	1307
30	1321

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

Point Minutes	Press.
0	29
5	29
10	29
15	29
20	29
25	29
30	Flushed tool
35	41
40	41
45	41
50	41
55	41
58	41

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	41
3	298
6	643
9	797
12	902
15	969
18	1009
21	1043
24	1073
27	1094
30	1113
33	1127
36	1143
39	1157
42	1171
45	1179
48	1189
51	1196
54	1201
57	1208
58	1210



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2463	2378	PSI
(B)	First Initial Flow Pressure	18	19	PSI
(C)	First Final Flow Pressure	18	19	PSI
(D)	Initial Closed-in Pressure	1326	1321	PSI
(E)	Second Initial Flow Pressure	23	29	PSI
(F)	Second Final Flow Pressure	47	41	PSI
(G)	Final Closed-in Pressure	1210	1210	PSI
(H)	Final Hydrostatic Mud	2440	2298	PSI

COMPANY Pickrell Drilling Co. LEASE AND WELL NO. Sweeny "E" #1 SEC. 26 TWP. 22s RGE. 21w TEST NO. 1 DATE 9-18-68

WESTERN TESTERS

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

Company Pickrell Drilling Co. Lease & Well No. Sweeny "E" #1

Elevation 2276 Derrick Floor Formation Mississippian Effective Pay 10 Ft. Ticket No. 10879

Date 9-18-68 Sec. 26 Twp. 22s Range 21w County Hodgeman State Kansas

Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

Formation Test No. 2 O.K. X Misrun Interval Tested From 4515' to 4525' Total Depth 4525'

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

Packer Depth 4510 Ft. Size 6 3/4" Packer Depth 4515 Ft. Size 6 3/4"

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

Packer Depth Ft. Size

Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 10 Ft. Size 5 1/2" OD

RECORDERS Depth 4518 Ft. Clock No. 6897 Depth 4521 Ft. Clock No. 8377

Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 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 1:24 P M

Tool Open I.F.P. From 1:28 M. to 1:40P. M. Hr. 12 Min. From (B) 16 P.S.I. To (C) 42 P.S.I.

Tool Closed I.C.I.P. From 1:40 M. to 2:10P. M. Hr. 30 Min. (D) 1374 P.S.I.

Tool Open F.F.P. From 2:10 M. to 3:40P. M. 1 Hr. 30 Min. From (E) 66 P.S.I. To (F) 345 P.S.I.

Tool Closed F.C.I.P. From 3:40 M. to 4:55P. M. 1 Hr. 15 Min. (G) 1351 P.S.I.

Initial Hydrostatic Pressure (A) 2441 P.S.I. Final Hydrostatic Pressure (H) 2435 P.S.I.

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

BLOW Weak to strong Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 750 feet salt water

Reversed Out Yes X No Mud Type Starch Viscosity 50 Weight 10.2 Water Loss 8 cc. Maximum Temp. 131 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 3692 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 803 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

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 9-18-68 Test Ticket No. 10879

Recorder No. 3085 Capacity 4500 Location 4518 Ft.

Clock No. 6897 Elevation 2276 Derrick Floor Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2441 P.S.I.	Opened Tool	1:28 P.M.	
B First Initial Flow Pressure	16 P.S.I.	First Flow Pressure	12 Mins.	11 Mins.
C First Final Flow Pressure	42 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1374 P.S.I.	Second Flow Pressure	90 Mins.	86 Mins.
E Second Initial Flow Pressure	66 P.S.I.	Final Closed-in Pressure	75 Mins.	73 Mins.
F Second Final Flow Pressure	345 P.S.I.			
G Final Closed-in Pressure	1351 P.S.I.			
H Final Hydrostatic Mud	2435 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	16
P 2 5	23
P 3 10	40
P 4 11	42
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.

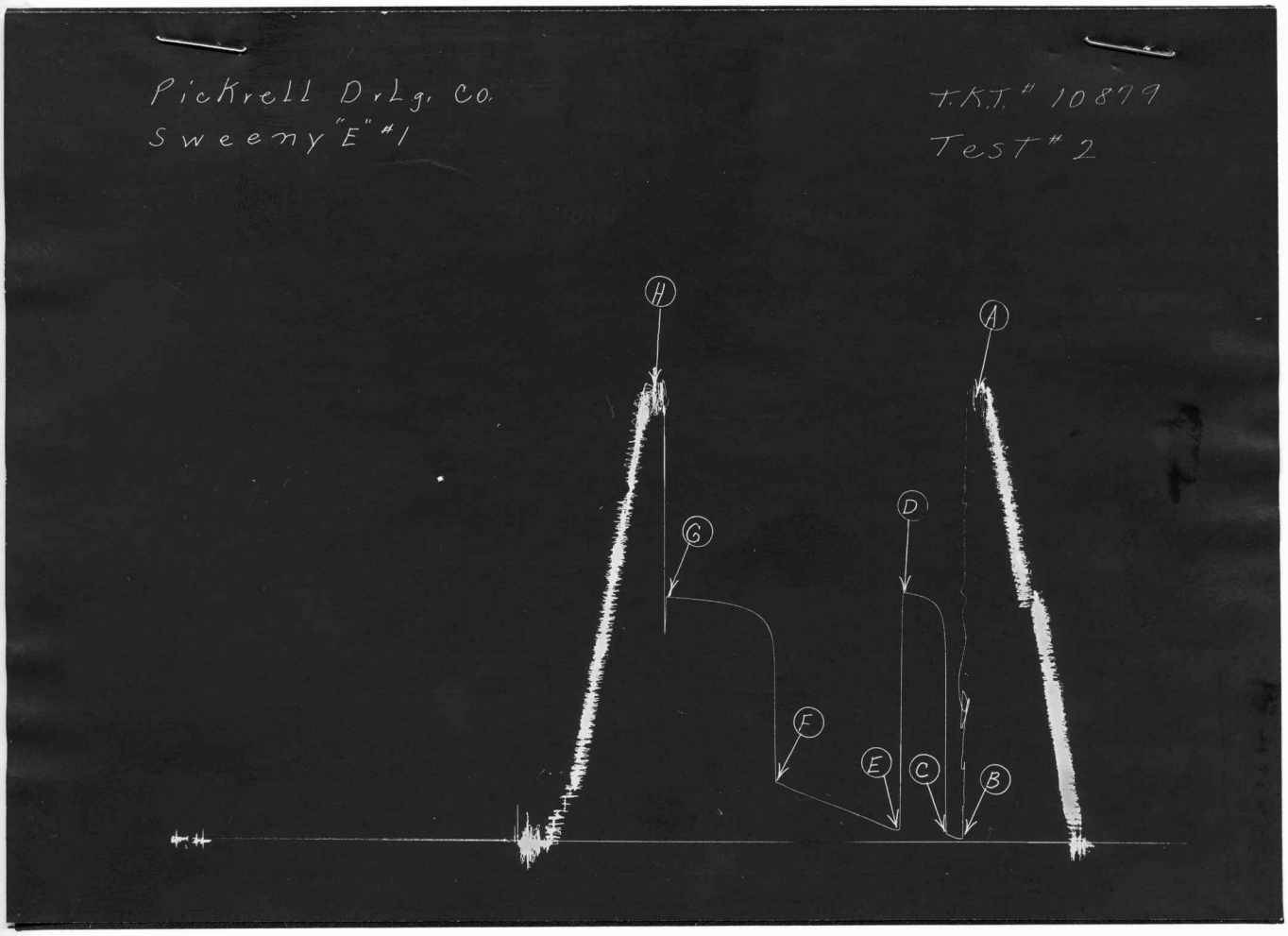
Point Minutes	Press.
0	42
3	1032
6	1270
9	1309
12	1330
15	1344
18	1353
21	1361
24	1365
27	1370
30	1374

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	66
5	71
10	91
15	107
20	126
25	143
30	162
35	176
40	191
45	210
50	224
55	243
60	260
65	275
70	291
75	311
80	327
85	342
86	345

Final Shut-In
Breakdown: 24 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	345
3	1122
6	1194
9	1226
12	1249
15	1265
18	1279
21	1288
24	1295
27	1303
30	1309
33	1317
36	1321
39	1326
42	1329
45	1332
48	1334
51	1337
54	1339
57	1341
60	1343
63	1345
66	1347
69	1349
72	1350
73	1356 1351



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2463	2441	PSI
(B)	First Initial Flow Pressure	18	16	PSI
(C)	First Final Flow Pressure	47	42	PSI
(D)	Initial Closed-in Pressure	1372	1374	PSI
(E)	Second Initial Flow Pressure	71	66	PSI
(F)	Second Final Flow Pressure	334	345	PSI
(G)	Final Closed-in Pressure	1349	1351	PSI
(H)	Final Hydrostatic Mud	2440	2435	PSI

COMPANY Pickrell Drilling Company LEASE AND WELL NO. Sweeny "E" #1 SEC. 26 TWP. 22s RGE. 21w TEST NO. 2 DATE 9-18-68