Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Hughes A #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 24233

Date 7-29-75 Sec. 29 Twp. 34S Range 8W County Harper State Kansas

Test Approved by R.M. Linehan Western Representative Donald Burgett

Formation Test No. 1 O.K. X Misrun - Interval Tested From 4658' to 4715' Total Depth 4715'

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

Top Packer Depth 4653 Ft. Size 6 3/4 Bottom Packer Depth 4658 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 57 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4707 Ft. Clock No. 6800 Depth 4710 Ft. Clock No. 6859

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3150 No. 1565 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 6:42 A.M.

Tool Open I.F.P. From 6:45 A.M. to 7:15A M. - Hr. 30 Min. From (B) 17 P.S.I. To (C) 17 P.S.I.

Tool Closed I.C.I.P. From 7:15A M. to 7:45A M. - Hr. 30 Min (D) 981 P.S.I.

Tool Open F.F.P. From 7:45 A M. to 8:45A M. - Hr. 60 Min. From (E) 19 P.S.I. To (F) 21 P.S.I.

Tool Closed F.C.I.P. From 8:45A M. to 10:15A M. - Hr. 90 Min. (G) 1346 P.S.I.

Initial Hydrostatic Pressure (A) 2538 P.S.I. Final Hydrostatic Pressure (H) 2521 P.S.I. Maximum Temp. 139

INFORMATION

BLOW Strong throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 55' of oil cut mud

Reversed Out - Yes X No Mud Type Starch Viscosity 52 Weight 9.7 Water Loss 9.6 cc. Chlorides 40,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 4245 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 430 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4½I-90 In. Length D.S.T. Tool 77 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 7-29-75 Test Ticket No. 24233

Recorder No. 1559 Capacity 4200 Location 4707 Ft.

Clock No. 6800 Elevation - Well Temperature 139 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2538	P.S.I.
B	First Initial Flow Pressure	17	P.S.I.
C	First Final Flow Pressure	17	P.S.I.
D	Initial Closed-in Pressure	981	P.S.I.
E	Second Initial Flow Pressure	19	P.S.I.
F	Second Final Flow Pressure	21	P.S.I.
G	Final Closed-in Pressure	1346	P.S.I.
H	Final Hydrostatic Mud	2521	P.S.I.

	Time Given		Time Computed	
Open Tool	6:42	P.M.		
First Flow Pressure	30	Mins.	30	Mins.
Initial Closed-in Pressure	30	Mins.	33	Mins.
Second Flow Pressure	60	Mins.	60	Mins.
Final Closed-in Pressure	90	Mins.	87	Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	17
P 2 5	17
P 3 10	17
P 4 15	17
P 5 20	17
P 6 25	17
P 7 30	17
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 0 Min.

Point Minutes	Press.
0	17
3	46
6	134
9	227
12	324
15	418
18	519
21	619
24	712
27	804
30	896
33	981

Second Flow Pressure

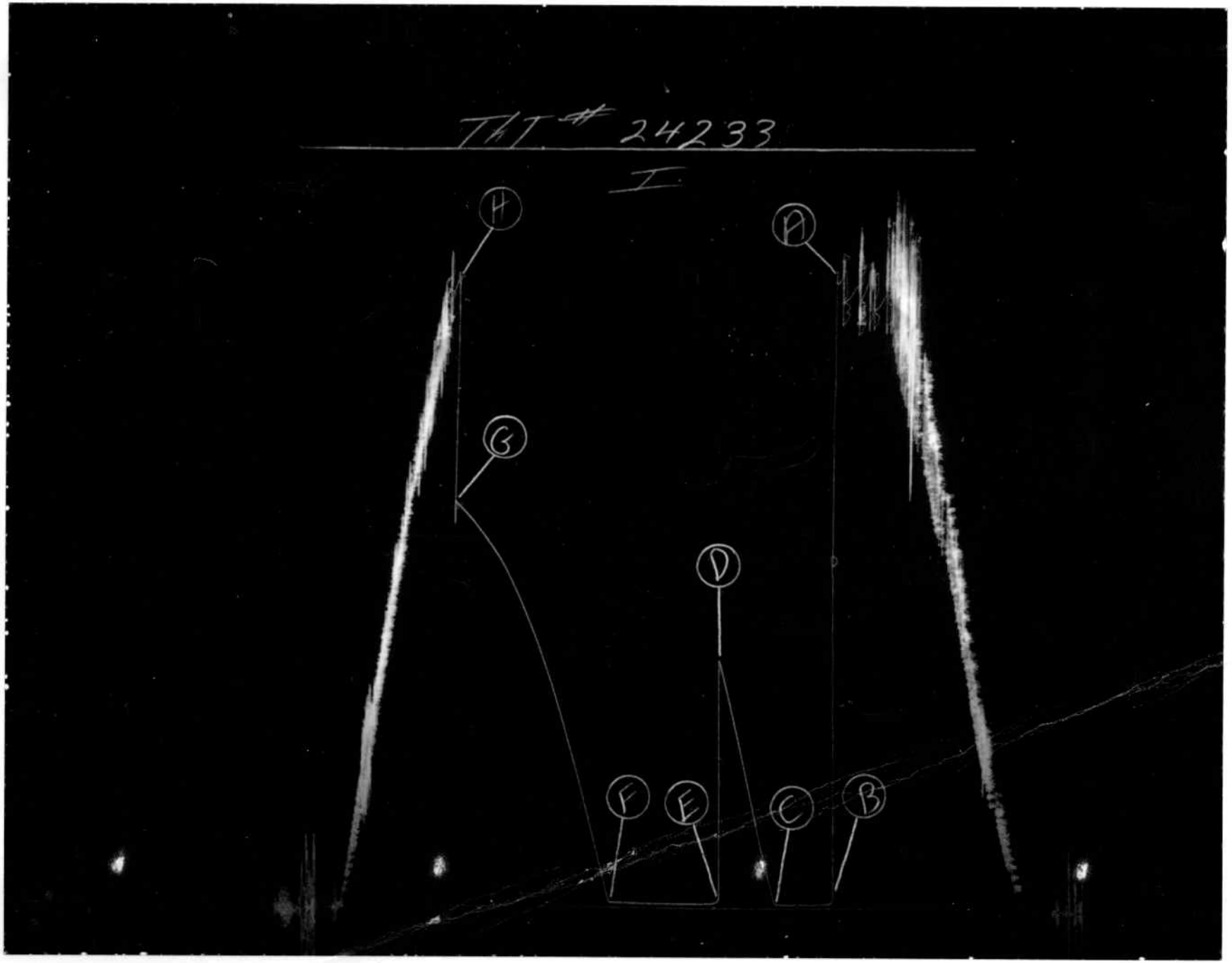
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	19
5	19
10	19
15	19
20	19
25	19
30	19
35	19
40	19
45	20
50	20
55	20
60	21

Final Shut-In

Breakdown: 29 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	21
3	85
6	169
9	251
12	333
15	416
18	500
21	573
24	652
27	723
30	795
33	865
36	929
39	991
42	1050
45	1109
48	1161
51	1211
54	1261
57	1307
60	1346
63	1385
66	1420
69	1449
72	1480
75	1507
78	1536
81	1559
84	1583
87	1607


THT # 24233
I
H
A
G
D
F
E
C
B