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

Company U.S. Minerals & Royalty Lease & Well No. Richards #1

Elevation 1327 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 24331

Date 5-11-76 Sec. 26 Twp. 28S Range 3E County Butler State Kansas

Test Approved by Paul D. Koontz Western Representative Norman Allen

Formation Test No. 1 O.K. - Misrun X Interval Tested From 2984' to 2994' Total Depth 2994'

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 2979 Ft. Size 6 3/4 Bottom Packer Depth 2984 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 10 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2987 Ft. Clock No. 8476 Depth 2990 Ft. Clock No. 4964

Top Make Kuster Cap. 4200 No. 1559 Inside ~~Outside~~ Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside

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

Time Set Packer 12:57 P.M

Tool Open I.F.P. From 1:00P M. to 1:30P M. - Hr. 30 Min. From (B) - P.S.I. To (C) - P.S.I.

Tool Closed I.C.I.P. From 1:30P M. to 2:00P M. - Hr. 30 Min (D) - - - P.S.I.

Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.

Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - - - P.S.I.

Initial Hydrostatic Pressure (A) 1575 P.S.I. Final Hydrostatic Pressure (H) 1515 P.S.I. Maximum Temp. -

INFORMATION

BLOW Slid tool 10', tool stopped 5' off bottom.

Did Well Flow - Yes X No Recovery Total Ft. MISRUN no recovery

Reversed Out - Yes X No Mud Type chem Viscosity 45 Weight 9.6 Water Loss 11.2 cc. Chlorides 2000 P.P.M.

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

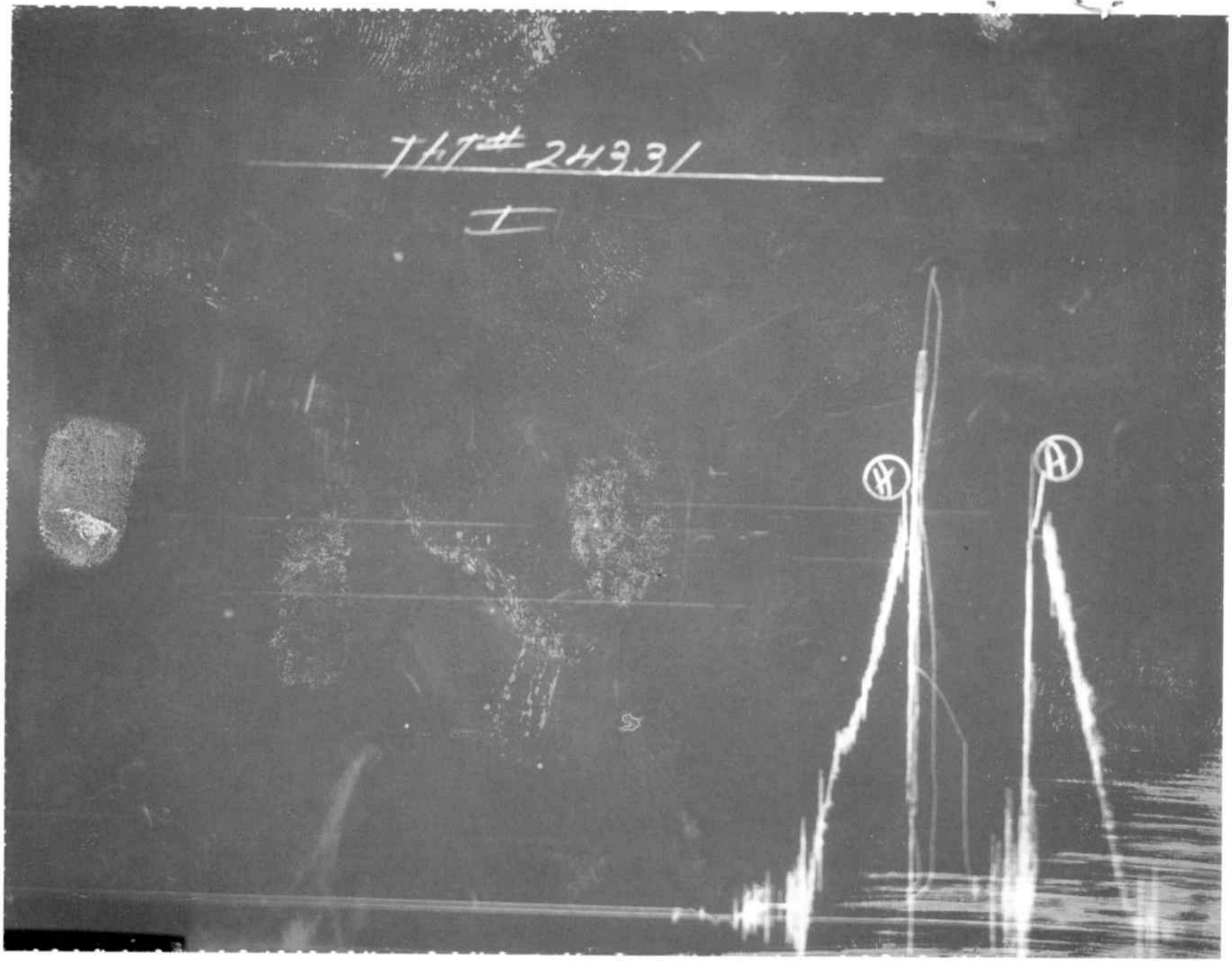
Dual Packer yes Did Packers Hold? - Did Tool Plug? yes Where? anchor & tool

DRILLING CONTRACTOR Triangle Drlg. Co. Length Drill Pipe? 2600 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 360 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½XH In. Length D.S.T. Tool 30 Ft.

Remarks: MISRUN- tool would not go to bottom.


TH-T 24931
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Company U.S. Minerals & Royalty Lease & Well No. Richards #1

Elevation 1327 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 24332

Date 5-11-76 Sec. 26 Twp. 28S Range 3E County Butler State Kansas

Test Approved by N.R. Perry Western Representative Norman Allen

Formation Test No. 2 O.K. X Misrun - Interval Tested From 2984' to 2994' Total Depth 2994'

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 2979 Ft. Size 6 3/4 Bottom Packer Depth 2984 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 10 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2987 Ft. Clock No. 8476 Depth 2990 Ft. Clock No. 4964

Top Make Kuster Cap. 4200 No. 1559 Inside ~~Outside~~ Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside

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

Time Set Packer 9:57 P. M

Tool Open I.F.P. From 10:00P M. to 10:10P M. - Hr. 10 Min. From (B) 54 P.S.I. To (C) 187 P.S.I.

Tool Closed I.C.I.P. From 10:10P M. to 10:40P M. - Hr. 30 Min (D) 968 P.S.I.

Tool Open F.F.P. From 10:40P M. to 11:10P M. - Hr. 30 Min. From (E) 226 P.S.I. To (F) 412 P.S.I.

Tool Closed F.C.I.P. From 11:10P M. to 11:40P M. - Hr. 30 Min. (G) 938 P.S.I.

Initial Hydrostatic Pressure (A) 1548 P.S.I. Final Hydrostatic Pressure (H) 1534 P.S.I. Maximum Temp. 106

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 10' free oil. 1000' sulphur cut salt water.

Reversed Out - Yes X No Mud Type chem Viscosity 70 Weight 9.6 Water Loss 10.5 cc. Chlorides 2000 P.P.M.

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

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? - - -

DRILLING CONTRACTOR Triangle Drlg. Co. Length Drill Pipe? 2600 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 360 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½XH In. Length D.S.T. Tool 30 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 5-11-76 Test Ticket No. 24332

Recorder No. 1559 Capacity 4200 Location 2987 Ft.

Clock No. 8476 Elevation 1327 Kelly Bushing Well Temperature 106 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1548	P.S.I.	Open Tool	9:57 P. M	
B	First Initial Flow Pressure	54	P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	187	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	968	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	226	P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F	Second Final Flow Pressure	412	P.S.I.			
G	Final Closed-in Pressure	938	P.S.I.			
H	Final Hydrostatic Mud	1534	P.S.I.			

PRESSURE BREAKDOWN

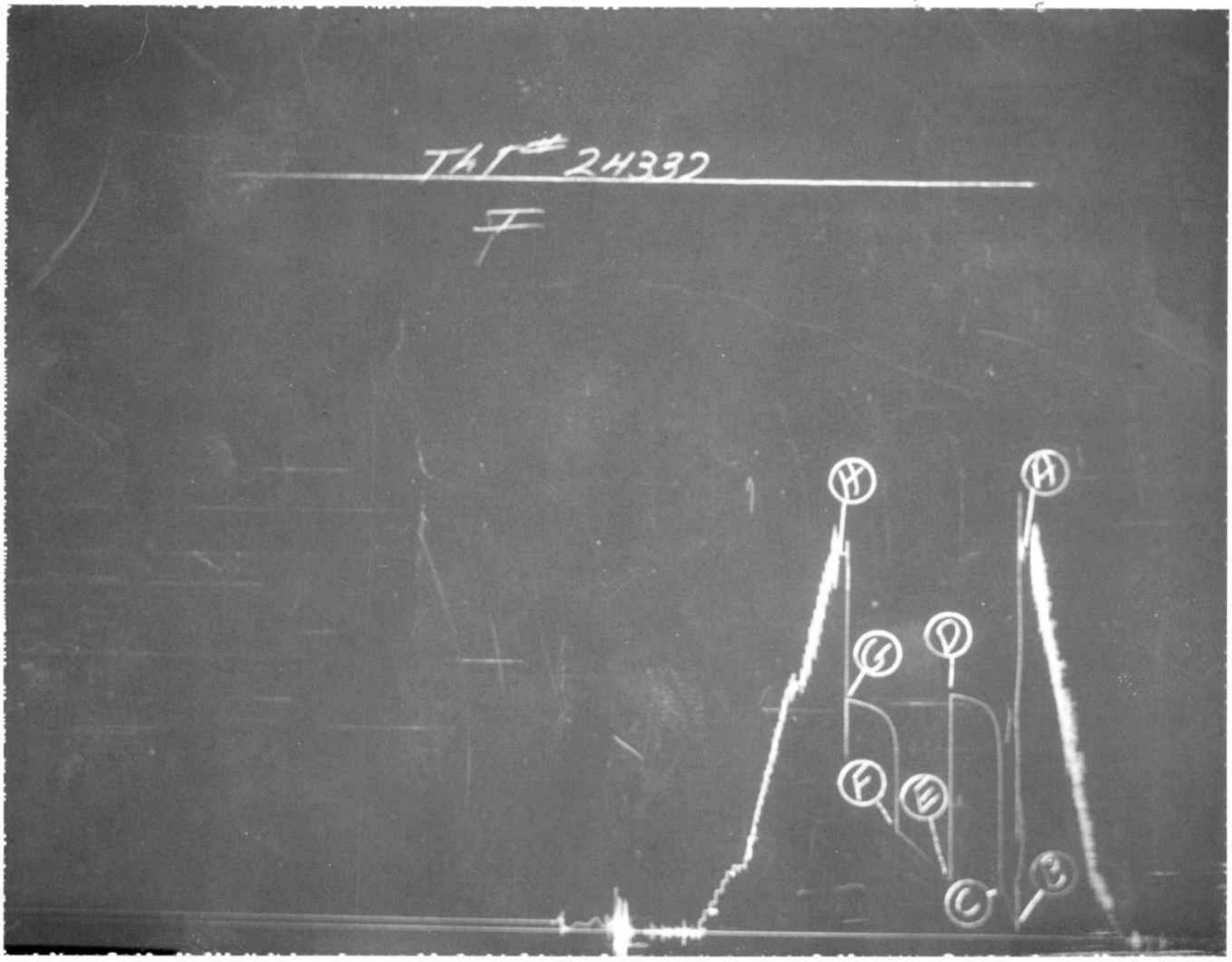
First Flow Pressure
Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

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

Final Shut-In
Breakdown: 9 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	54	0	187	0	226	0	412
P 2 5	144	3	847	5	240	3	829
P 3 10	187	6	899	10	281	6	870
P 4		9	923	15	318	9	890
P 5		12	937	20	352	12	905
P 6		15	948	25	384	15	914
P 7		18	954	30	412	18	923
P 8		21	960			21	929
P 9		24	964			24	935
P10		27	968			27	938
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							


TAT 24392
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