

SUPERIOR TESTERS

433 SOUTH WESTVIEW • DERBY, KANSAS

COMPANY THUNDERBIRD DRILLING STATE Kansas COUNTY Logan

LEASE & WELL NO. Lowe # 1 ELEVATION 3320 KB. DATE 11/19/80 FORMATION TESTED Kansas City

SEC 9 TWP 11 RANGE 35 INTERVAL TESTED 4310 TO 4362 TOTAL DEPTH 4362

TEST NO. # 1 O.K. yes TOP PACKER DEPTH 4305 FT. BOTTOM PACKER DEPTH 4310 FT. PACKER SIZE 6 3/4

STRADDLE no CONV yes TOOL SIZE 5 1/2 OD. TOOL JOINT SIZE 4 1/2 FH. ANCHOR LENGTH 52 FT.

HOLE SIZE 7 7/8 EXTRA EQUIPMENT Circ Pin \$ 35.00 SURFACE CHOKE SIZE 1/2 IN. BOTTOM CHOKE SIZE 1/2 IN.

REVERSED OUT no VISCOSITY 43 WEIGHT 9.7 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no

WHERE? DRILLING CONTRACTOR Thunderbird Drilling.

TOOL JOINT SIZE 4 1/2 FH. IN. LENGTH DRILL PIPE 3813 FT. I.D. DRILL PIPE 3.8 IN.

TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH WEIGHT PIPE 549 FT. I.D. WEIGHT PIPE 2.5 IN.

TOOL JOINT SIZE IN. LENGTH DRILL COLLARS FT. I.D. DRILL COLLARS IN.

TOOL OPEN I.F.P. FROM 3:45 p. m to 4:15 p. m Hr. 30 min From (B) 79 P.S.I. to (C) 513 P.S.I.

TOOL CLOSED I.C.I.P. FROM 4:15 p. m to 5:00 p. m Hr. 45 min (D) 1315 P.S.I.

TOOL OPEN F.F.P. FROM 5:00 p. m to 6:00 p. m Hr. 60 min From (E) 533 P.S.I. to (F) 985 P.S.I.

TOOL CLOSED F.C.I.P. FROM 6:00 p. m to 7:00 p. m Hr. 60 min (G) 1295 P.S.I.

INITIAL HYDROSTATIC PRESSURE (A) 2258 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 2258 MAXIMUM TEMPERATURE

BLOW Weak blow Off bottom of bucket.

RECOVERY - TOTAL FEET 1980 ft.

RECOVERED 1980 FEET OF Muddy water.

RECOVERED FEET OF

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RECOVERED FEET OF

RECOVERED FEET OF

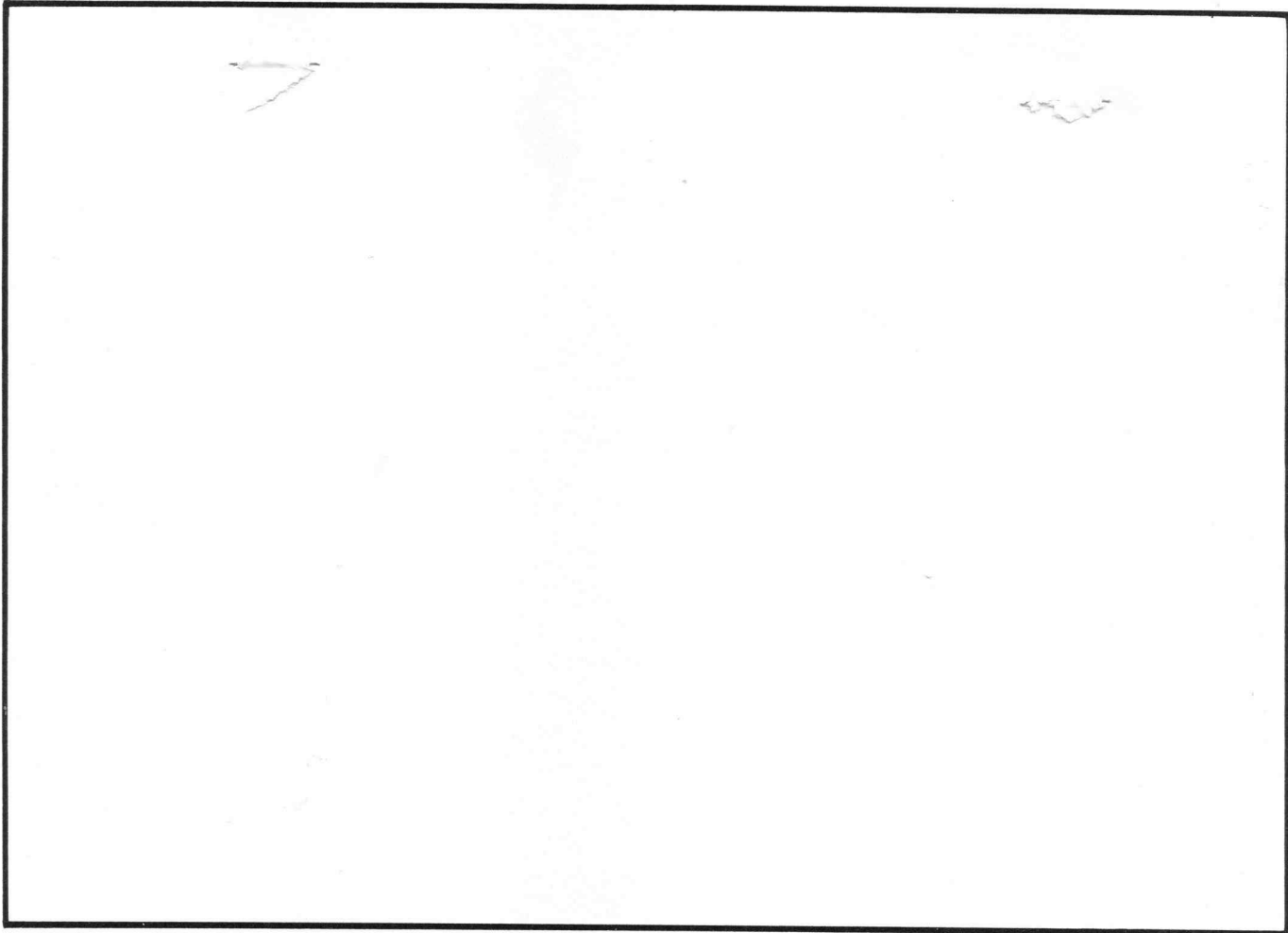
RECOVERED FEET OF

RECOVERED FEET OF

REMARKS None.

TICKET NO. 5371

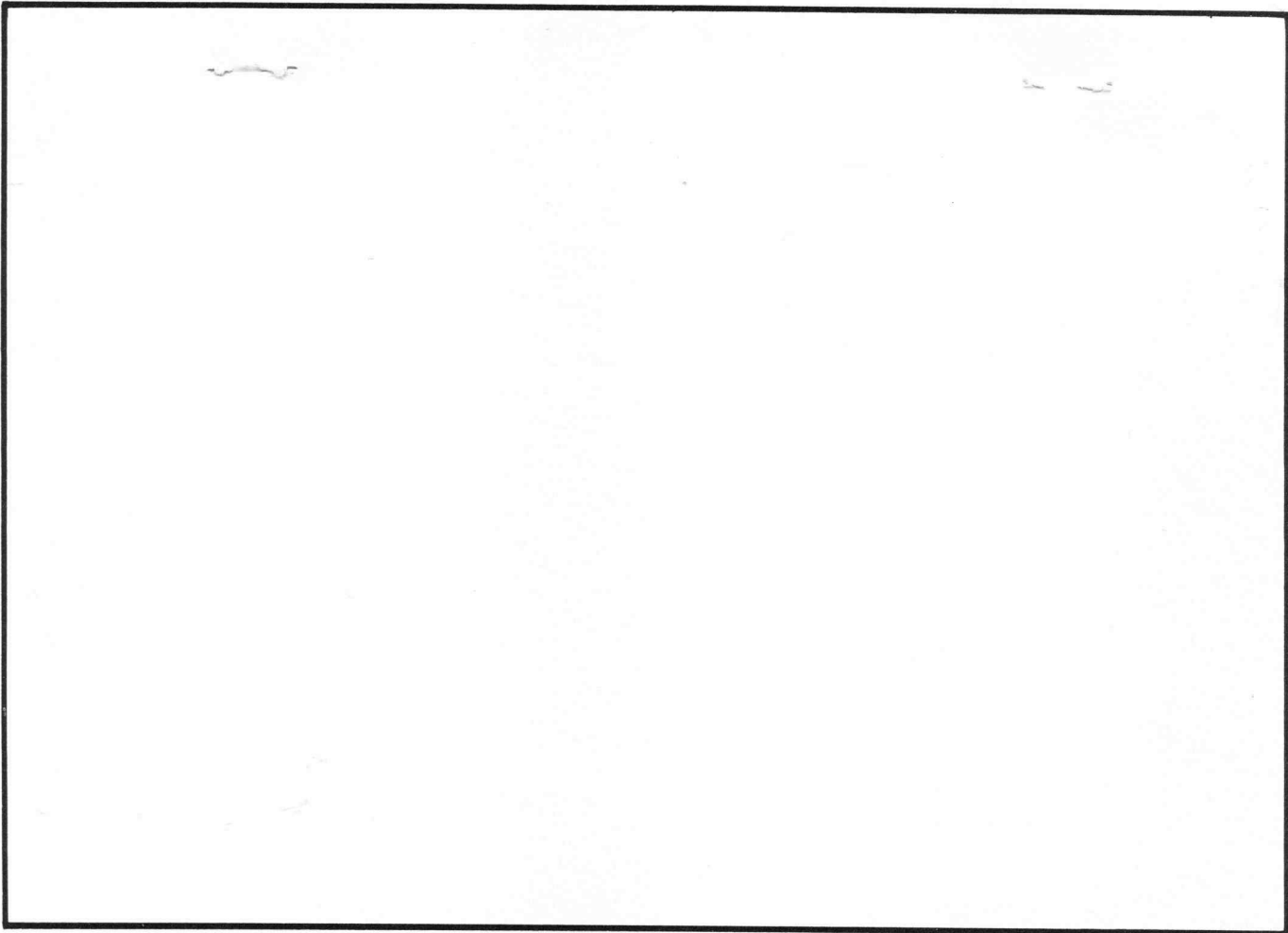
WITNESSED BY: Paul Montoia TOOL OPERATOR: Bob Clanton



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2258</u>	<u>2243</u>	P.S.I.
(B) First Initial Flow Pressure	<u>79</u>	<u>79</u>	P.S.I.
(C) First Final Flow Pressure	<u>513</u>	<u>513</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1315</u>	<u>1315</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>533</u>	<u>562</u>	P.S.I.
(F) Second Final Flow Pressure	<u>984</u>	<u>964</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1295</u>	<u>1315</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2258</u>	<u>2219</u>	P.S.I.

COMPANY Thunderbird Drilling LEASE - WELL NO. Lowe # 1 SEC 9 TWP 11 RGE. 35 TEST NO. # 1 DATE 11/19/80



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2432</u>	<u>2421</u>	P.S.I.
(B) First Initial Flow Pressure	<u>53</u>	<u>53</u>	P.S.I.
(C) First Final Flow Pressure	<u>43</u>	<u>43</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1306</u>	<u>1306</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>53</u>	<u>53</u>	P.S.I.
(F) Second Final Flow Pressure	<u>53</u>	<u>53</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1178</u>	<u>1178</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2411</u>	<u>2400</u>	P.S.I.

3875

DST 2

5435

THUNDERBIRD DRILLING

4569-4604 Marmation

Low # 1

11/23/80

