SUPERIOR TESTERS

368 West Second, Hoisington, Kansas

COMPANY F. & M. Oil Co. STATE Kansas COUNTY Pawnee

LEASE & WELL NO. Branstetter # 1 ELEVATION 1982 KB. DATE 11/23/81 FORMATION TESTED Kansas City

SEC 36 TWP 22 RANGE 15 INTERVAL TESTED 3676 TO 3700 TOTAL DEPTH 3700

TEST NO. #1 O.K. yes TOP PACKER DEPTH 3671 FT. BOTTOM PACKER DEPTH 3676 FT. PACKER SIZE 6 & 3/4

STRADDLE no CONV. yes TOOL SIZE 5½ OD. TOOL JOINT SIZE 4½ FH. ANCHOR LENGTH 24 FT.

HOLE SIZE 7 & 7/8 EXTRA EQUIPMENT none SURFACE CHOKE SIZE ½ IN. BOTTOM CHOKE SIZE ½ IN.

REVERSED OUT no VICOSITY 34 WEIGHT 9.6 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no

DRILLING CONTRACTOR Union # 3

TOOL JOINT SIZE 4½ FH. IN. LENGTH DRILL PIPE 3626 FT. I.D. DRILL PIPE 3.80 IN.

TOOL JOINT SIZE ----- IN. LENGTH WEIGHT PIPE ------ FT. I.D. WEIGHT PIPE ----- IN.

TOOL JOINT SIZE 4½ XH. IN. LENGTH DRILL COLLARS 28 FT. I.D. DRILL COLLARS 2.25 IN.

TOOL OPEN I.F.P. FROM 4:15 a.m. to 4:45 a.m. Hr. 30 min From (B) 81 P.S.I. to (C) 110 P.S.I.

TOOL CLOSED I.C.I.P. FROM 4:45 a.m. to 5:30 a.m. Hr. 45 min (D) 1375 P.S.I.

TOOL OPEN F.F.P. FROM 5:30 a.m. to 6:30 a.m. Hr. 60 min From (E) 140 P.S.I. to (F) 177 P.S.I.

TOOL CLOSED F.C.I.P. FROM 6:30 a.m. to 7:15 a.m. Hr. 45 min (G) 1353 P.S.I.

INITIAL HYDROSTATIC PRESSURE (A) 1962 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 1918 MAXIMUM TEMPERATURE 104 °F

BLOW Weak to fair blow through out test.

RECOVERY - TOTAL FEET 430ft.

RECOVERED 70 FEET OF Very slightly Oil cut thin mud.

RECOVERED 120 FEET OF Very slightly Oil cut muddy water.

RECOVERED 240 FEET OF Oil spotted water.

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

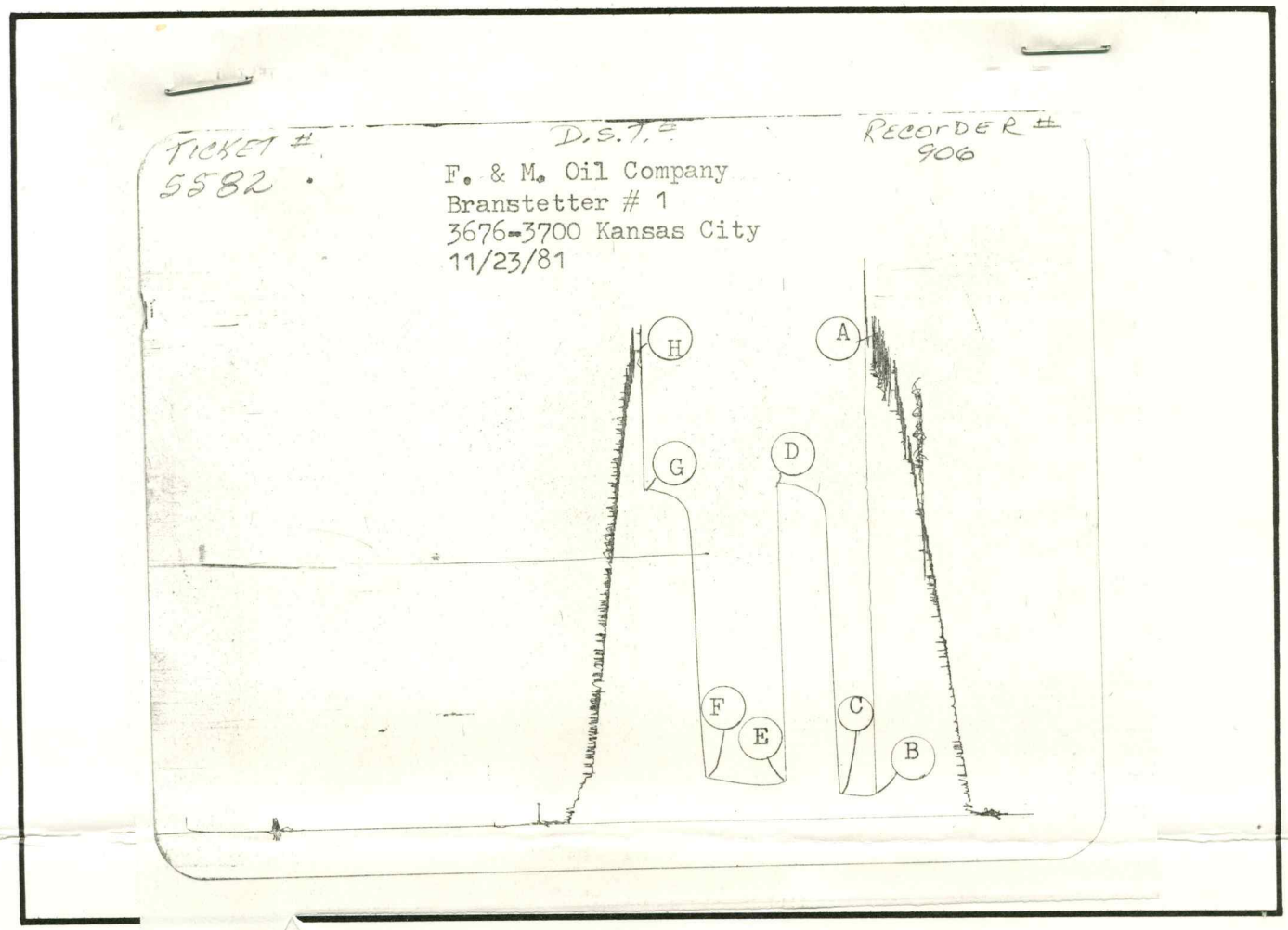
RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

REMARKS None.

TICKET NO. 5582

WITNESSED BY: Bob Gebhart TOOL OPERATOR: R. E. Budig



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	1962	1972	P.S.I.
(B)	First Initial Flow Pressure	81	81	P.S.I.
(C)	First Final Flow Pressure	110	100	P.S.I.
(D)	Initial Closed-in Pressure	1375	1375	P.S.I.
(E)	Second Initial Flow Pressure	140	140	P.S.I.
(F)	Second Final Flow Pressure	177	177	P.S.I.
(G)	Final Closed-in Pressure	1353	1359	P.S.I.
(H)	Final Hydrostatic Mud	1918	1918	P.S.I.

COMPANY F. & M. Oil Co. LEASE- WELL NO. Branstetter # 1 SEC. 36 TWP. 22 RGE. 15 TEST NO. # 1 DATE 11/23/81

SUPERIOR TESTERS

368 West Second, Hoisington, Kansas

COMPANY F. & M. Oil Company STATE Kansas COUNTY Pawnee

LEASE & WELL NO. Branstetter D-1 ELEVATION 1982 KB. DATE 11/23/81 FORMATION TESTED Kansas City

SEC 36 TWP 22 RANGE 15 INTERVAL TESTED 3706 TO 3740 TOTAL DEPTH 3740

TEST NO. #2 O.K. yes TOP PACKER DEPTH 3701 FT. BOTTOM PACKER DEPTH 3706 FT. PACKER SIZE 6 & 3/4

STRADDLE no CONV. yes TOOL SIZE 5½ OD. TOOL JOINT SIZE 4½ FH. ANCHOR LENGTH 34 FT.

HOLE SIZE 7 & 7/8 EXTRA EQUIPMENT none SURFACE CHOKE SIZE ½ IN. BOTTOM CHOKE SIZE ½ IN.

REVERSED OUT no VICOSITY 44 WEIGHT 9.5 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no

DRILLING CONTRACTOR Union # 3

TOOL JOINT SIZE 4½ FH. IN. LENGTH DRILL PIPE 3654 FT. I.D. DRILL PIPE 3.75 IN.

TOOL JOINT SIZE ----- IN. LENGTH WEIGHT PIPE ---- FT. I.D. WEIGHT PIPE ----- IN.

TOOL JOINT SIZE 4½ XH. IN. LENGTH DRILL COLLARS 31 FT. I.D. DRILL COLLARS 2.25 IN.

TOOL OPEN I.F.P. FROM 8:30 p.m to 9:00 p.m Hr. 30 min From (B) 88 P.S.I. to (C) 81 P.S.I.

TOOL CLOSED I.C.I.P. FROM 9:00 p.m to 9:45 p.m Hr. 45 min (D) 838 P.S.I.

TOOL OPEN F.F.P. FROM 9:45 p.m to 10:45 p.m Hr. 60 min From (E) 103 P.S.I. to (F) 103 P.S.I.

TOOL CLOSED F.C.I.P. FROM 10:45 p.m to 11:30 p.m Hr. 45 min (G) 794 P.S.I.

INITIAL HYDROSTATIC PRESSURE (A) 1621 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 1614 MAXIMUM TEMPERATURE ____ °F

BLOW Fair blow buulding to 4½in water in 30 minutes 1st opening.

Weak to fair blow building to 3½ in water in 60 minutes, 2nd opening.

RECOVERY - TOTAL FEET 140 ft.'

RECOVERED 140 FFET OF Watery mud., with a show of Oil intool.

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

RECOVERED ____ FEET OF ____

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RECOVERED ____ FEET OF ____

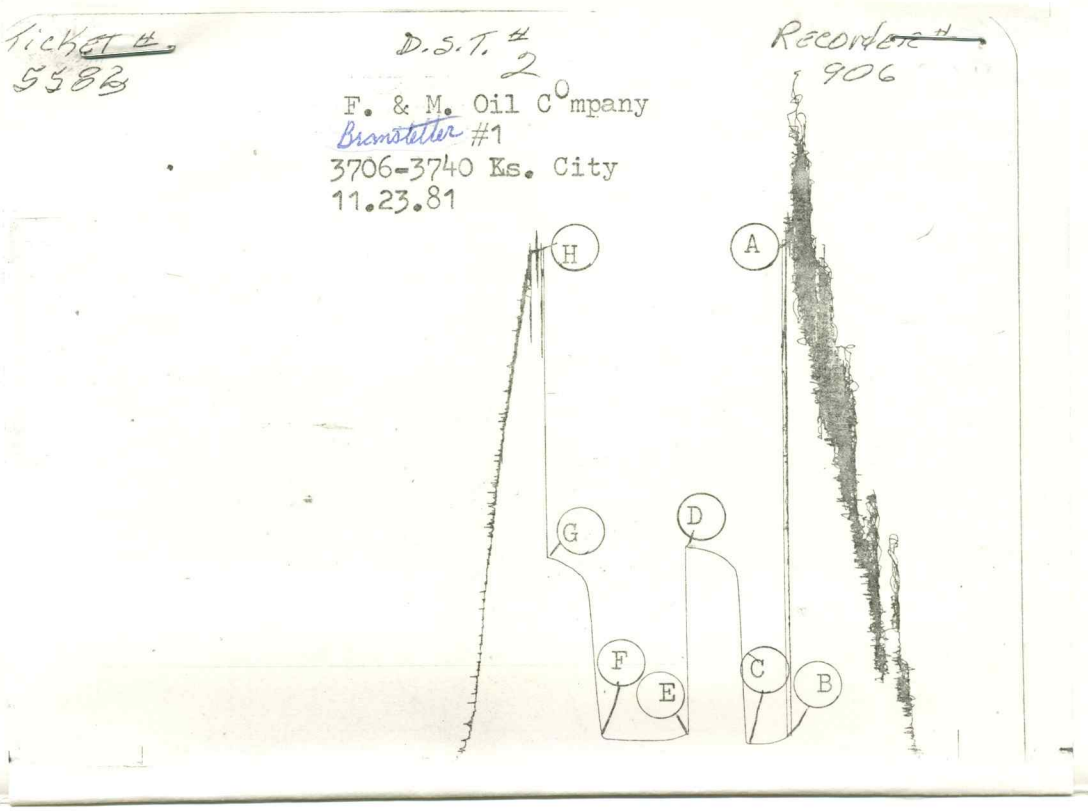
RECOVERED ____ FEET OF ____

REMARKS Slid tool 6ft to bottom.

TICKET NO. 5583

WITNESSED BY: Bob Gebhart TOOL OPERATOR: Ivan Suppes

COMPANY F. & M. Oil Co. LEASE-WELL NO. Branstetter #1 SEC. 36 TWP. 22 RGE. 15 TEST NO. # 2 DATE 11/23/81



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	1621	1650	P.S.I.
(B)	First Initial Flow Pressure	88 81	88 81	P.S.I.
(C)	First Final Flow Pressure			P.S.I.
(D)	Initial Closed-in Pressure	838	838	P.S.I.
(E)	Second Initial Flow Pressure	103	122	P.S.I.
(F)	Second Final Flow Pressure	103	103	P.S.I.
(G)	Final Closed-in Pressure	794	785	P.S.I.
(H)	Final Hydrostatic Mud	1614	1633	P.S.I.