

SUPERIOR TESTERS

368 West Second, Hoisington, Kansas

COMPANY Mustang Drilling & Exp. & F.M. Oil STATE Kansas COUNTY Rush

LEASE & WELL NO. Wagerman-Wilhelm ELEVATION 2094 DATE 2-26-84 FORMATION TESTED Arb

SEC. 7 TWP. 19 RANGE 16 INTERVAL TESTED 3824 TO 3837 TOTAL DEPTH 3837

TEST NO. 1# ; O.K. Yes TOP PACKER DEPTH 3819 FT. BOTTOM PACKER DEPTH 3824 FT. PACKER SIZE 6 3/4

STRADDLE No CONV. Yes TOOL SIZE 5 1/2 O.D. TOOL JOINT SIZE 4 1/2 F.H. ANCHOR LENGTH 12 FT.

HOLE SIZE 7 7/8 EXTRA EQUIPMENT None SURFACE CHOKE SIZE 1/2 IN. BOTTOM CHOKE SIZE 1/2 IN.

REVERSED OUT No VISCOSITY 45 WEIGHT 9.8 DUAL PACKERS Yes DID PACKER HOLD Yes DID TOOL PLUG No

DRILLING CONTRACTOR Mustang Drilling Rig #1

TOOL JOINT SIZE 4 1/2 XH IN. LENGTH DRILL PIPE 3760 FT. I.D. DRILL PIPE 380 IN.

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

TOOL JOINT SIZE 4 1/2 X H IN. LENGTH DRILL COLLARS 62 FT. I.D. DRILL COLLARS 2.25 IN.

TOOL OPEN I.F.P. FROM 9:00 a.m. to 9:30 a.m. Hr. 30 min From (B) 28 P.S.I. to (C) 28 P.S.I.

TOOL CLOSED I.C.I.P. FROM 9:30 a.m. to 10:15 a.m. Hr. 45 min (D) 696 P.S.I.

TOOL OPEN F.F.P. FROM 10:15 a.m. to 10:45 a.m. Hr. 30 min From (E) 43 P.S.I. to (F) 43 P.S.I.

TOOL CLOSED F.C.I.P. FROM 10:45 a.m. to 11:30 a.m. Hr. 45 min (G) 231 P.S.I.

INITIAL HYDROSTATIC PRESSURE (A) 2091 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 2032 MAXIMUM TEMPERATURE 111 °F

BLOW Weak blow of top of bucket died 19.11

No blow

RECOVERY - TOTAL FEET 15

RECOVERED 15 FEET OF mud with show of oil

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 _____

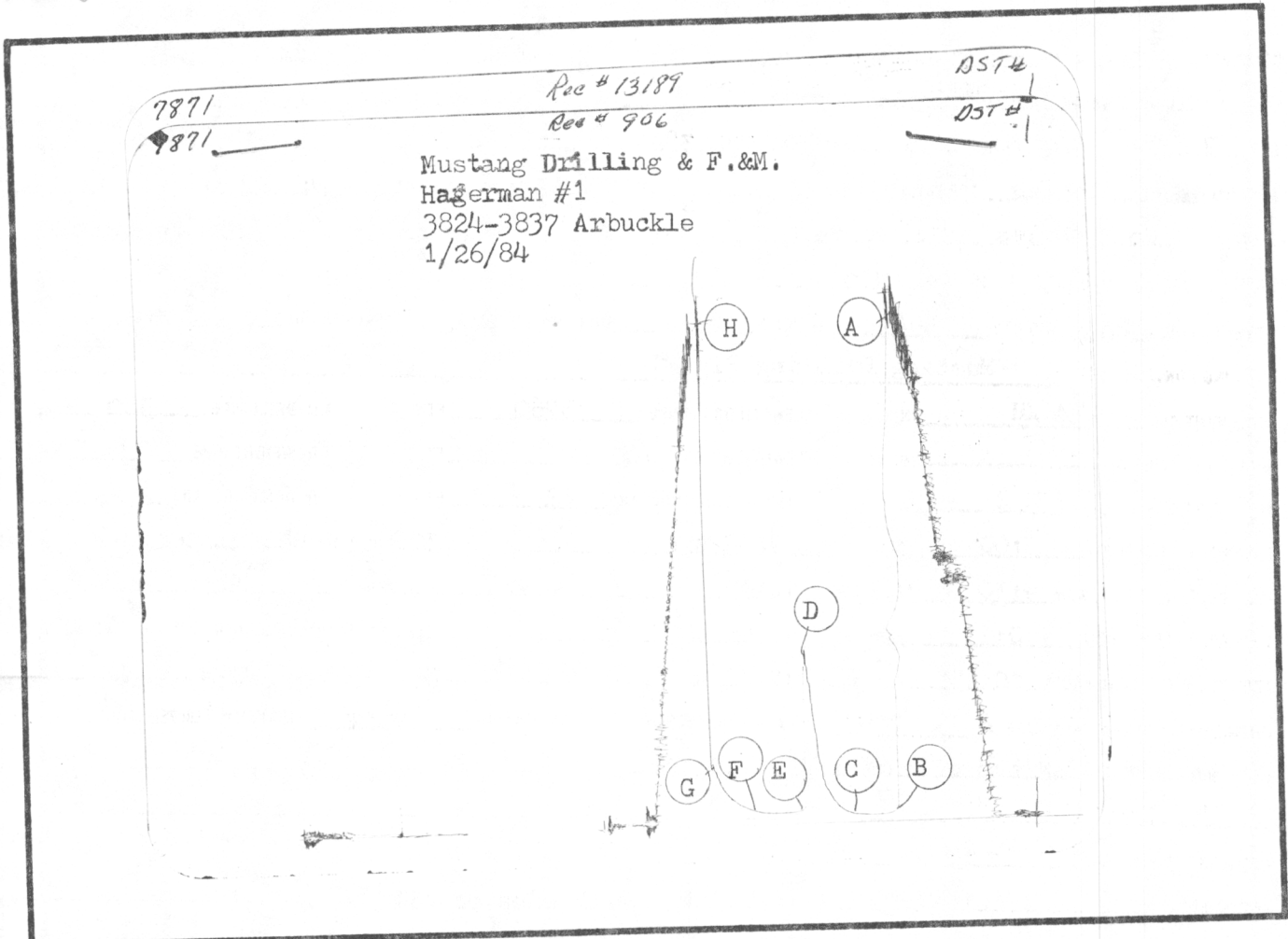
RECOVERED _____ FEET OF _____

RECOVERED _____ FEET OF _____

REMARKS _____

TICKET NO 7871

WITNESSED BY _____ TOOL OPERATOR Pat Stevenson



This is actual recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2019	2020	P.S.I.
(B) First Initial Flow Pressure	28	36	P.S.I.
(C) First Final Flow Pressure	28	36	P.S.I.
(D) Initial Closed-in Pressure	696	681	P.S.I.
(E) Second Initial Flow Pressure	43	43	P.S.I.
(F) Second Final Flow Pressure	43	43	P.S.I.
(G) Final Closed-in Pressure	231	224	P.S.I.
(H) Final Hydrostatic Mud	2012	1977	P.S.I.

SUPERIOR TESTERS
368 West Second, Holsington, Kansas

COMPANY Mustang Drilling & Exp & F & M Oil STATE Kansas COUNTY Rush
LEASE & WELL NO. Hagerman & Wilhelm ELEVATION 2094 DATE 1-26-84 FORMATION TESTED Arb
SEC 7 TWP 9 RANGE 16 INTERVAL TESTED 3837 TO 3847 TOTAL DEPTH 3847
TEST NO. #2 O.K. Yes TOP PACKER DEPTH 3832 FT. BOTTOM PACKER DEPTH 3837 FT. PACKER SIZE 6 3/4
STRADDLE No CONV. Yes TOOL SIZE 5 1/2 O.D. TOOL JOINT SIZE 4 1/2 X H ANCHOR LENGTH 10 F
HOLE SIZE 7 7/8 EXTRA EQUIPMENT None SURFACE CHOKE SIZE 1/2 IN. BOTTOM CHOKE SIZE 1/2 I
REVERSED OUT No VISCOSITY 45 WEIGHT 9.8 DUAL PACKERS Yes DID PACKER HOLD Yes DID TOOL PLUG No

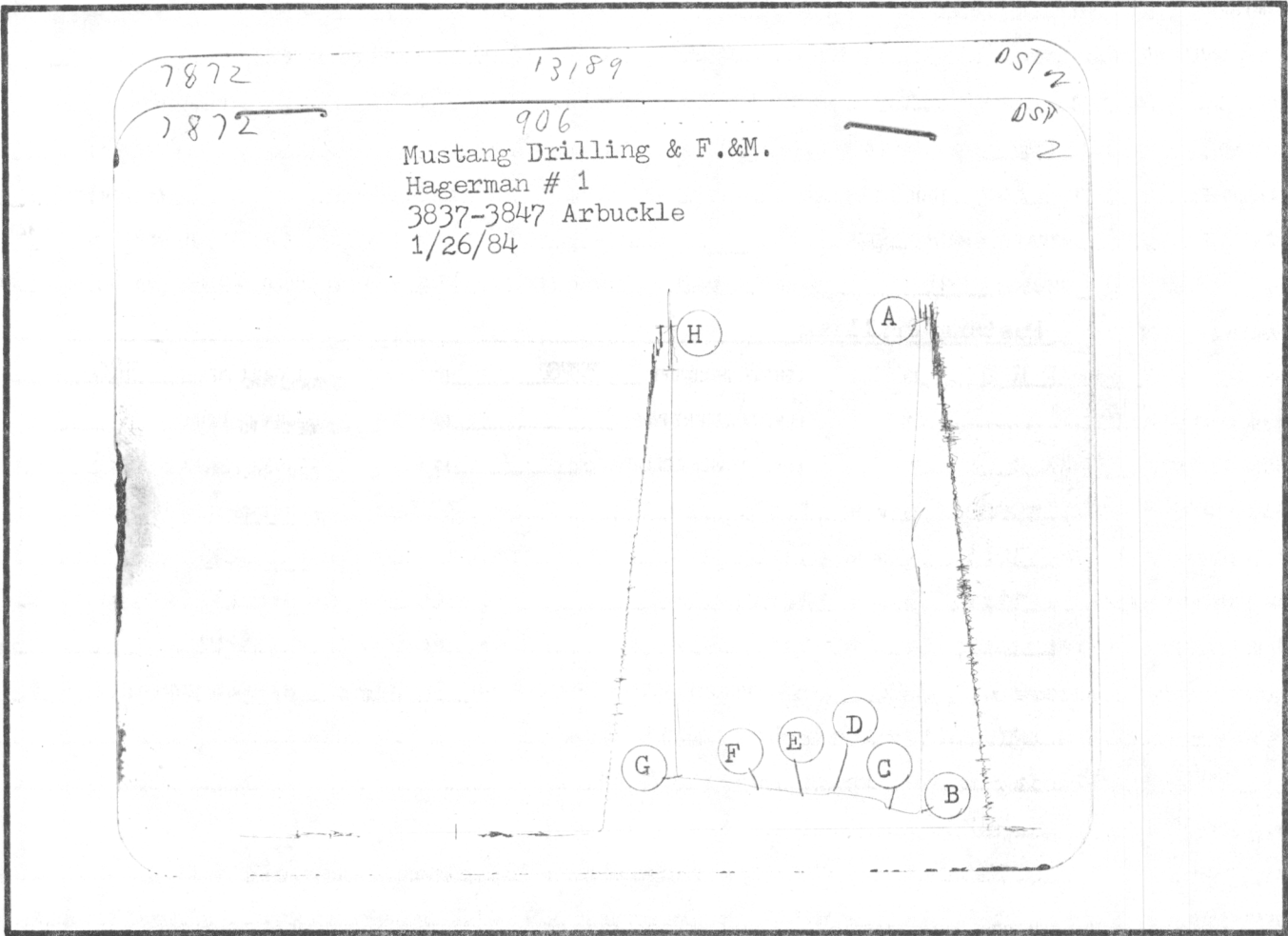
DRILLING CONTRACTOR Mustang Drilling
TOOL JOINT SIZE 4 1/2 X H IN. LENGTH DRILL PIPE 3770 FT. I D. DRILL PIPE 380
TOOL JOINT SIZE _____ IN. LENGTH WEIGHT PIPE _____ FT. I D. WEIGHT PIPE _____
TOOL JOINT SIZE 4 1/2 X H IN. LENGTH DRILL COLLARS 62 FT. I D. DRILL COLLARS 225
TOOL OPEN I.F.P. FROM 10:00 p.m. to 10:30 m. Hr. 30 min From (B) 57 P.S.I. to (C) 72 P.
TOOL CLOSED I.C.I.P. FROM 10:30 p.m. to 11:15 p. Hr. 45 min (D) 137 P.
TOOL OPEN F.F.P. FROM 11:15 p.m. to 12:15 a.m. Hr. 60 min From (E) 130 P.S.I. to (F) 159 P.
TOOL CLOSED F.C.I.P. FROM 12:15 a.m. to 1:15 a.m. Hr. 60 min (G) 217 P.
INITIAL HYDROSTATIC PRESSURE (A) 2020 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 1962 MAXIMUM TEMPERATURE 118

BLOW Strong blow off bottom of bucket 10.11
Strong building to bottom of bucket 10.11

RECOVERY - TOTAL FEET 565
RECOVERED 780 FEET OF gas in pipe -265 clean gassy oil
RECOVERED 180 FEET OF muddy gassy oil -120 muddy gassy slightly cut
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 _____
RECOVERED _____ FEET OF _____

REMARKS 41 Graudy ajusted

TICKET NO. 7872
WITNESSED BY: _____ TOOL OPERATOR Pat Stevenson



This is actual recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2020	2005	P.S.I.
(B) First Initial Flow Pressure	57	65	P.S.I.
(C) First Final Flow Pressure	72	72	P.S.I.
(D) Initial Closed-in Pressure	137	137	P.S.I.
(E) Second Initial Flow Pressure	130	137	P.S.I.
(F) Second Final Flow Pressure	159	152	P.S.I.
(G) Final Closed-in Pressure	217	195	P.S.I.
(H) Final Hydrostatic Mud	1962	1948	P.S.I.