

SUPERIOR TESTERS

368 West Second, Hoisington, Kansas

COMPANY Alma Inc. Mustang Drilling STATE Kansas COUNTY Pawnee
LEASE & WELL NO Irma # 1 ELEVATION DATE 2/6/83 FORMATION TESTED Viola
SEC 3 TWP 23 RANGE 15 INTERVAL TESTED 3910 TO 4000 TOTAL DEPTH 4000
TEST NO # 1 O.K. yes TOP PACKER DEPTH 3905 FT. BOTTOM PACKER DEPTH 3910 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 90 FT.
HOLE SIZE 7 & 7/8 EXTRA EQUIPMENT none Insurance SURFACE CHOKE SIZE 1/2 IN. BOTTOM CHOKE SIZE 1/2 IN.
REVERSED OUT no VISCOSITY 48 WEIGHT 9.8 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no
DRILLING CONTRACTOR Mustang # 1

TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL PIPE 3827 FT. I.D. DRILL PIPE 3.80 IN.
TOOL JOINT SIZE IN. LENGTH WEIGHT PIPE FT. I.D. WEIGHT PIPE IN.
TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL COLLARS 102 FT. I.D. DRILL COLLARS 2.25 IN.
TOOL OPEN I.F.P. FROM 10:00 p.m. to 10:30 p.m. Hr. 30 min From (B) 178 P.S.I. to (C) 312 P.S.I.
TOOL CLOSED I.C.I.P. FROM 10:30 p.m. to 11:00 p.m. Hr. 30 min (D) 334 P.S.I.
TOOL OPEN F.F.P. FROM 11:00 p.m. to 11:30 p.m. Hr. 30 min From (E) 267 P.S.I. to (F) 312 P.S.I.
TOOL CLOSED F.C.I.P. FROM 11:30 p.m. to 12:00 p.m. Hr. 30 min (G) 379 P.S.I.
INITIAL HYDROSTATIC PRESSURE (A) 2146 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 2123 MAXIMUM TEMPERATURE 109 °F

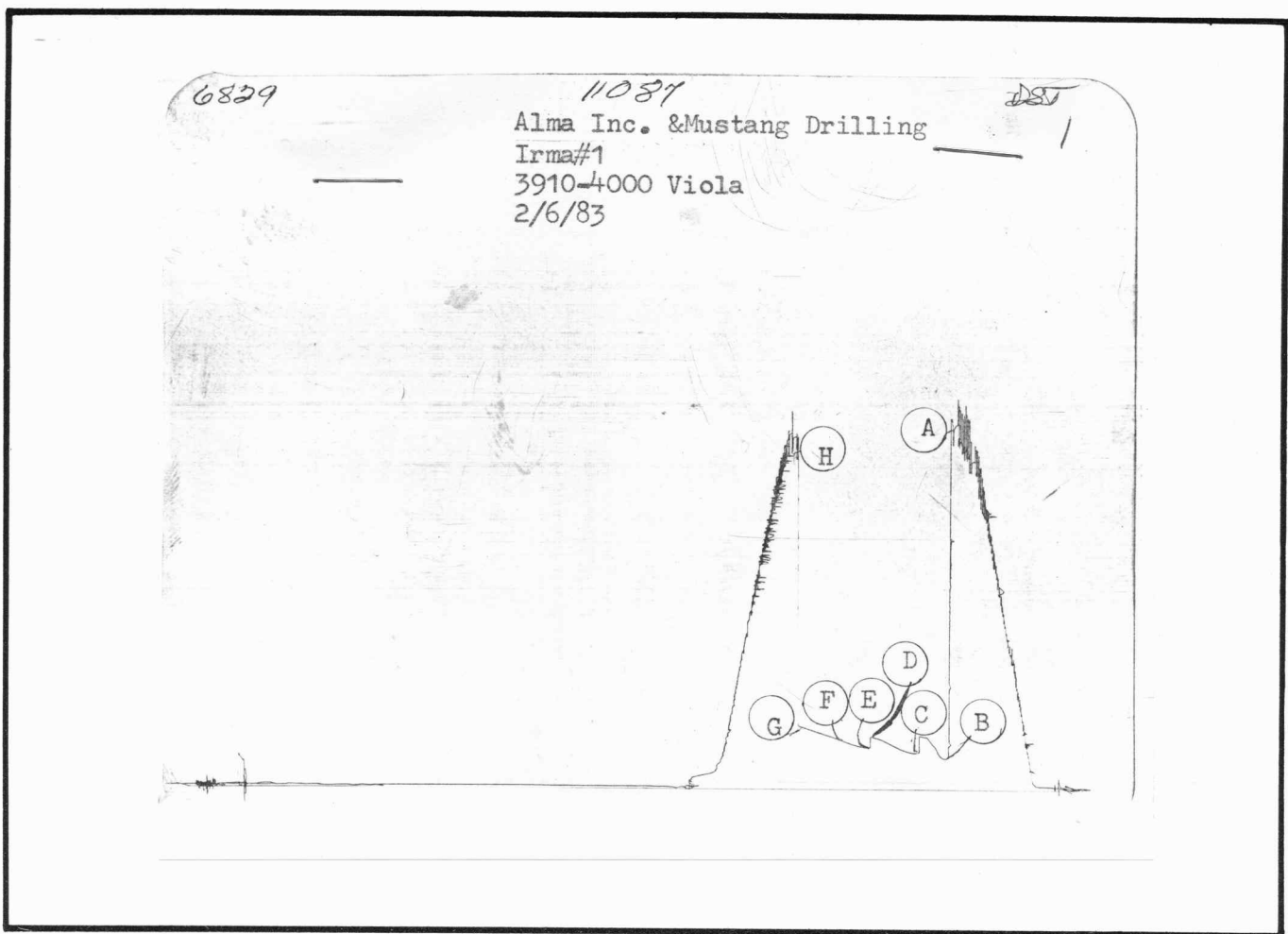
BLOW Weak decreasing through-out 1st opening.
No blow 2nd opening.

RECOVERY - TOTAL FEET 75
RECOVERED 75 FEET OF Mud.
RECOVERED FEET OF
RECOVERED FEET OF
RECOVERED FEET OF
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RECOVERED FEET OF

REMARKS Insurance- \$40.00

TICKET NO 6829

WITNESSED BY: Jim Musgrove TOOL OPERATOR Craig Bucl



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud . . . . .	<u>2146</u>	<u>2178</u>	P.S.I.
(B) First Initial Flow Pressure . . . . .	<u>178</u>	<u>188</u>	P.S.I.
(C) First Final Flow Pressure . . . . .	<u>312</u>	<u>232</u>	P.S.I.
(D) Initial Closed-in Pressure . . . . .	<u>334</u>	<u>334</u>	P.S.I.
(E) Second Initial Flow Pressure . . . . .	<u>267</u>	<u>261</u>	P.S.I.
(F) Second Final Flow Pressure . . . . .	<u>312</u>	<u>305</u>	P.S.I.
(G) Final Closed-in Pressure . . . . .	<u>379</u>	<u>379</u>	P.S.I.
(H) Final Hydrostatic Mud . . . . .	<u>2123</u>	<u>2123</u>	P.S.I.

**SUPERIOR TESTERS**

368 West Second, Hoisington, Kansas

COMPANY Alma Inc. Mustang Drilling STATE Kansas COUNTY Pawnee  
LEASE & WELL NO. Irma # 1 ELEVATION \_\_\_\_\_ DATE 2/7/83 FORMATION TESTED Simpson  
SEC 3 TWP 23 RANGE 15 INTERVAL TESTED 4000 TO 4070 TOTAL DEPTH 4070  
TEST NO. # 2 O.K. no TOP PACKER DEPTH 3995 FT. BOTTOM PACKER DEPTH 4000 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 70 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 \_\_\_\_\_ WEIGHT \_\_\_\_\_ DUAL PACKERS yes DID PACKER HOLD no DID TOOL PLUG no  
DRILLING CONTRACTOR Mustang # 1

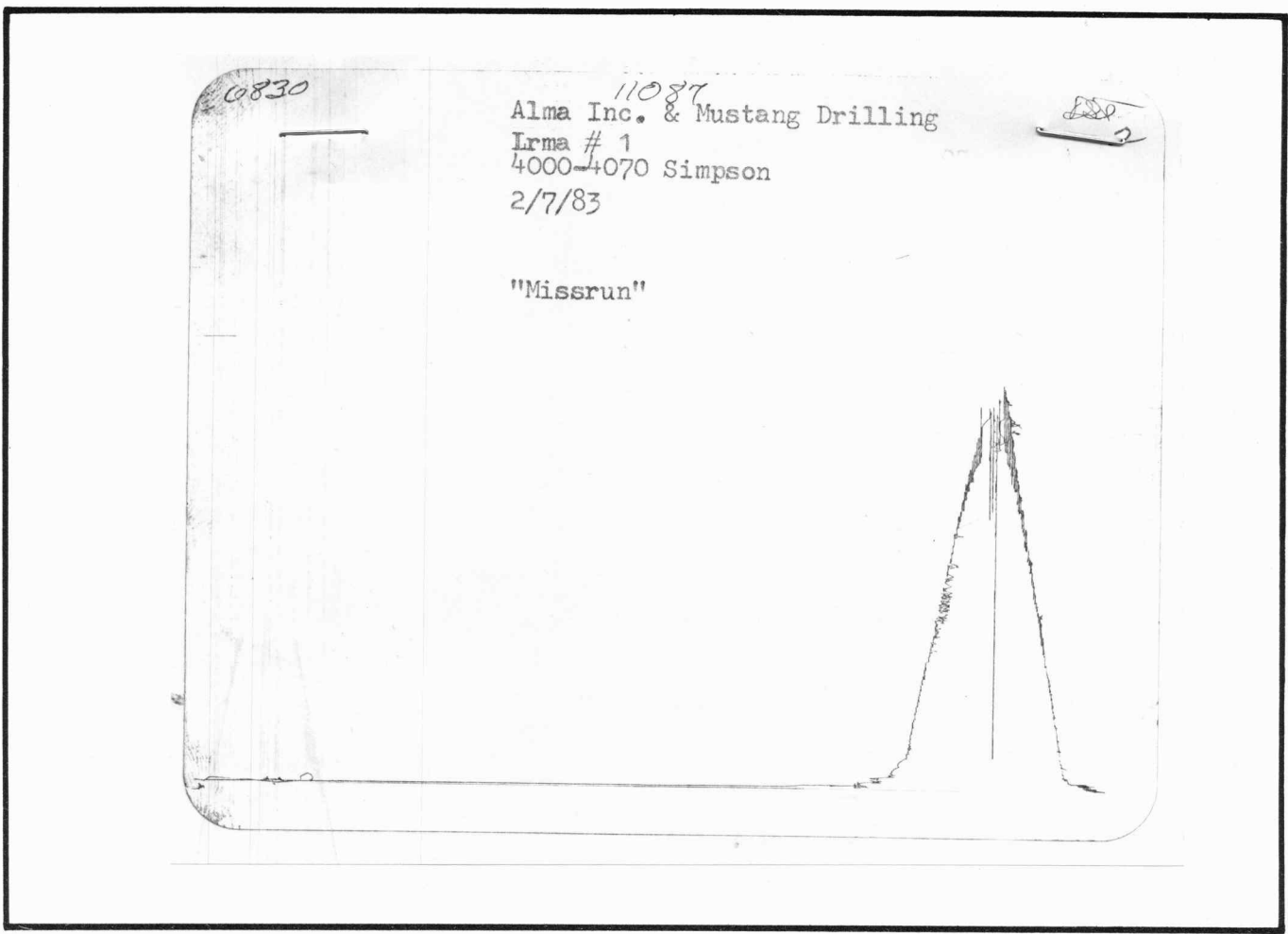
TOOL JOINT SIZE \_\_\_\_\_ IN. LENGTH DRILL PIPE \_\_\_\_\_ FT. I. D. DRILL PIPE \_\_\_\_\_ IN.  
TOOL JOINT SIZE \_\_\_\_\_ IN. LENGTH WEIGHT PIPE \_\_\_\_\_ FT. I. D. WEIGHT PIPE \_\_\_\_\_ IN.  
TOOL JOINT SIZE \_\_\_\_\_ IN. LENGTH DRILL COLLARS \_\_\_\_\_ FT. I. D. DRILL COLLARS \_\_\_\_\_ IN.  
TOOL OPEN I. F. P. FROM \_\_\_\_\_ m to \_\_\_\_\_ m Hr \_\_\_\_\_ min From (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
TOOL CLOSED I. C. I. P. FROM \_\_\_\_\_ m to \_\_\_\_\_ m Hr \_\_\_\_\_ 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) \_\_\_\_\_ P.S.I. FINAL HYDROSTATIC PRESSURE (H) \_\_\_\_\_ P.S.I. MAXIMUM TEMPERATURE \_\_\_\_\_ °F

BLOW Missrun

RECOVERY - TOTAL FEET Missrun  
RECOVERED \_\_\_\_\_ FEET OF \_\_\_\_\_  
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 \_\_\_\_\_  
RECOVERED \_\_\_\_\_ FEET OF \_\_\_\_\_

REMARKS Missrun, packer failure \$179.25.

TICKET NO. 6830  
WITNESSED BY: Jim Musgrove TOOL OPERATOR Craig Bucl



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	<u>Missrun No</u>	<u>Readings</u>	P.S.I.
(B) First Initial Flow Pressure .....	_____	_____	P.S.I.
(C) First Final Flow Pressure .....	_____	_____	P.S.I.
(D) Initial Closed-in Pressure .....	_____	_____	P.S.I.
(E) Second Initial Flow Pressure .....	_____	_____	P.S.I.
(F) Second Final Flow Pressure .....	_____	_____	P.S.I.
(G) Final Closed-in Pressure .....	_____	_____	P.S.I.
(H) Final Hydrostatic Mud .....	_____	_____	P.S.I.

# SUPERIOR TESTERS

368 West Second, Hoisington, Kansas

COMPANY Alma Inc. Mustang Drilling STATE Kansas COUNTY Pawnee  
LEASE & WELL NO. A Irma # 1 ELEVATION \_\_\_\_\_ DATE 2/7/83 FORMATION TESTED Simpson  
SEC. 3 TWP. 23 RANGE 15 INTERVAL TESTED 4020 TO 4070 TOTAL DEPTH 4070  
TEST NO. # 3 O.K. yes TOP PACKER DEPTH 4015 FT. BOTTOM PACKER DEPTH 4020 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 50 FT.  
HOLE SIZE 7 & 7/8 EXTRA EQUIPMENT Insurance \$40.00 SURFACE CHOKE SIZE 1 1/2 IN. BOTTOM CHOKE SIZE 1/2 IN.  
REVERSED OUT no VISCOSITY 46 WEIGHT 9.8 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no  
DRILLING CONTRACTOR Mustang # 1

TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL PIPE 3906 FT. I.D. DRILL PIPE 3.80 IN.  
TOOL JOINT SIZE \_\_\_\_\_ IN. LENGTH WEIGHT PIPE \_\_\_\_\_ FT. I.D. WEIGHT PIPE \_\_\_\_\_ IN.  
TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL COLLARS 93 FT. I.D. DRILL COLLARS 2.25 IN.  
TOOL OPEN I.F.P. FROM 5:30 p. m to 6:00 p. m Hr 30 min From (B) 133 P.S.I. to (C) 122 P.S.I.  
TOOL CLOSED I.C.I.P. FROM 6:00 p. m to 6:45 p. m Hr 45 min (D) 133 P.S.I.  
TOOL OPEN F.F.P. FROM 6:45 p. m to 7:15 p. m Hr 30 min From (E) 122 P.S.I. to (F) 122 P.S.I.  
TOOL CLOSED F.C.I.P. FROM 7:15 p. m to 8:15 p. m Hr 60 min (G) 156 P.S.I.  
INITIAL HYDROSTATIC PRESSURE (A) 2157 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 2090 MAXIMUM TEMPERATURE 113 °F

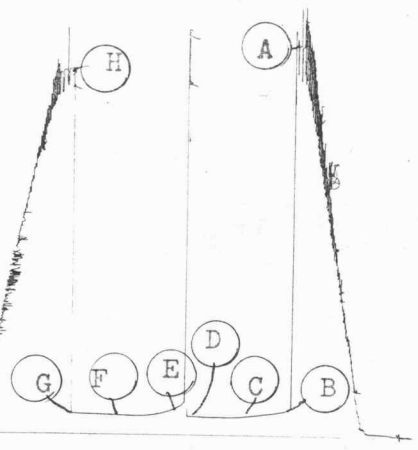
BLOW Weak built slightly 1st opening.  
No blow 2nd opening.

RECOVERY - TOTAL FEET 70  
RECOVERED 70 FEET OF Mud.  
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 \_\_\_\_\_  
RECOVERED \_\_\_\_\_ FEET OF \_\_\_\_\_  
RECOVERED \_\_\_\_\_ FEET OF \_\_\_\_\_

REMARKS Insurance \$40.00 Flushed tool 2nd opening, no help.

TICKET NO. 6831  
WITNESSED BY Jim Musgrove TOOL OPERATOR Craig Bucl

6831 11087 3  
 Alma Inc. & Mustang Drilling  
 Irma # 1  
 4020-4070 Simpson  
 2/7/83



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2157	2178	P.S.I.
(B) First Initial Flow Pressure	133	133	P.S.I.
(C) First Final Flow Pressure	122	110	P.S.I.
(D) Initial Closed-in Pressure	133	133	P.S.I.
(E) Second Initial Flow Pressure	122	122	P.S.I.
(F) Second Final Flow Pressure	122	122	P.S.I.
(G) Final Closed-in Pressure	156	144	P.S.I.
(H) Final Hydrostatic Mud	2090	2078	P.S.I.