

COMPANY F. & M. Oil Company LEASE - WELL NO Swanson # 1 SEC 22 TWP 18 RGE. 4 TEST NO. # 1 DATE 11/7/82

SUPERIOR TESTERS, INC.

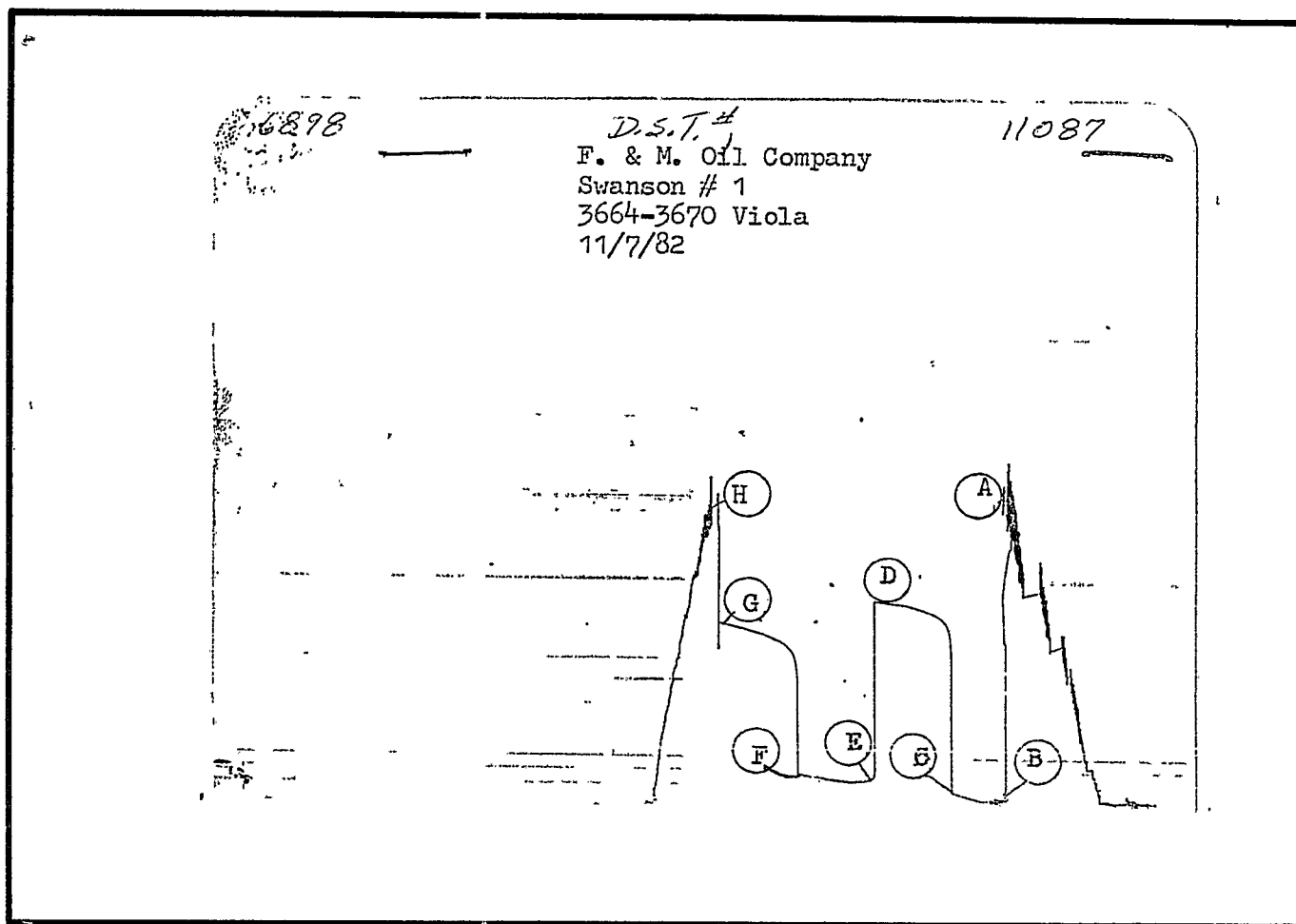
Formation Testing Service Report

SUPERIOR TESTERS
368 West Second, Holsington, Kansas

COMPANY F. & M. Oil Company STATE Kansas COUNTY McPherson
LEASE & WELL NO. Swanson # 1 ELEVATION 1521 KB. DATE 11/7/82 FORMATION TESTED Viola
SEC 22 TWP 18 RANGE 4 INTERVAL TESTED 3664 TO 3670 TOTAL DEPTH 3670
TEST NO. # 1 O.K. yes TOP PACKER DEPTH 3659 FT. BOTTOM PACKER DEPTH 3664 FT. PACKER SIZE 6 2 3/4
STRADDLE no CONV. yes TOOL SIZE 3 1/2 OD. TOOL JOINT SIZE 4 1/2 FH. ANCHOR LENGTH 06 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 42 WEIGHT 9.8 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no
DRILLING CONTRACTOR Union # 1
TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL PIPE 3181 FT. I.D. DRILL PIPE 3.80 IN.
TOOL JOINT SIZE 4 1/2 IN. LENGTH WEIGHT PIPE ----- FT. I.D. WEIGHT PIPE ----- IN.
TOOL JOINT SIZE 4 1/2 IN. LENGTH DRILL COLLARS 456 FT. I.D. DRILL COLLARS 2.25 IN.
TOOL OPEN I.F.P. FROM 4:00 p. m to 4:30 p. m Hr 30 min From (B) 12 P.S.I. to (C) 60 P.S.I.
TOOL CLOSED I.C.I.P. FROM 4:30 p. m to 5:30 p. m Hr 60 min (D) 1243 P.S.I.
TOOL OPEN F.F.P. FROM 5:30 p. m to 6:30 p. m Hr 60 min From (E) 132 P.S.I. to (F) 188 P.S.I.
TOOL CLOSED F.C.I.P. FROM 6:30 p. m to 7:30 p. m Hr 60 min (G) 1112 P.S.I.
INITIAL HYDROSTATIC PRESSURE (A) 1859 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 1837 MAXIMUM TEMPERATURE 101 °F
BLOW Very weak built to 5" in water 1st opening.
Very weak built to 6" in water 2nd opening.
RECOVERY - TOTAL FEET 450
RECOVERED 450 FEET OF Water.
RECOVERED ----- FEET OF -----
RECOVERED ----- FEET OF -----
RECOVERED ----- FEET OF -----
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RECOVERED ----- FEET OF -----
REMARKS None.

TICKET NO. 6898

WITNESSED BY: K.W. Johnson TOOL OPERATOR: Craig Bucl



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1859	1870	P.S.I.
(B) First Initial Flow Pressure	12	17	P.S.I.
(C) First Final Flow Pressure	60	66	P.S.I.
(D) Initial Closed-in Pressure	1243	1243	P.S.I.
(E) Second Initial Flow Pressure	132	143	P.S.I.
(F) Second Final Flow Pressure	188	188	P.S.I.
(G) Final Closed-in Pressure	1112	1122	P.S.I.
(H) Final Hydrostatic Mud	1837	1859	P.S.I.

COMPANY F. & M. Oil Company LEASE - WELL NO Swanson # 1 SEC 22 TWP 18 RGE. 4 TEST NO. # 2 DATE 11/8/82

SUPERIOR TESTERS INC.

Formation Testing Service Report

SUPERIOR TESTERS

368 West Second, Hoisington, Kansas

COMPANY T. & M. Oil Company STATE Kansas COUNTY McPherson
 LEASE & WELL NO. Swanson # 1 ELEVATION 1521 KB. DATE 11/8/82 FORMATION TESTED Simpson
 SEC 22 TWP 18 RANGE 4 INTERVAL TESTED 3714 TO 3726 TOTAL DEPTH 3726
 TEST NO. # 2 O.K. yes TOP PACKER DEPTH 37-- FT. BOTTOM PACKER DEPTH 3714 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 12 FT.
 HOLE SIZE 7 & 7/8 EXTRA EQUIPMENT none SURFACE CHOKE SIZE 1 1/2 IN. BOTTOM CHOKE SIZE 1 1/2 IN.
 REVERSED OUT no VISCOSITY 56 WEIGHT 9.8 DUAL PACKERS no DID PACKER HOLD yes DID TOOL PLUG no
 DRILLING CONTRACTOR Union # 1
 TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL PIPE 3246 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" H-90 IN. LENGTH DRILL COLLARS 456 FT. I.D. DRILL COLLARS 2.25 IN.
 TOOL OPEN I.F.P. FROM 9:15 a. m to 9:45 a. m Hr 30 min From (B) 58 P.S.I. to (C) 54 P.S.I.
 TOOL CLOSED I.C.I.P. FROM 9:45 a. m to 10:15 a. m Hr 30 min (D) 771 P.S.I.
 TOOL OPEN F.F.P. FROM 10:15 a. m to 10:45 a. m Hr 30 min From (E) 65 P.S.I. to (F) 55 P.S.I.
 TOOL CLOSED F.C.I.P. FROM 10:45 a. m to 11:15 a. m Hr 30 min (G) 717 P.S.I.
 INITIAL HYDROSTATIC PRESSURE (A) 1980 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 1958 MAXIMUM TEMPERATURE 101 °F
 BLOW Weak that died in 23 minutes 1st opening.

No blow 2nd opening.

RECOVERY - TOTAL FEET 10

RECOVERED 10 FEET OF Thin mud with Oil specks in tool.

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RECOVERED FEET OF

RECOVERED FEET OF

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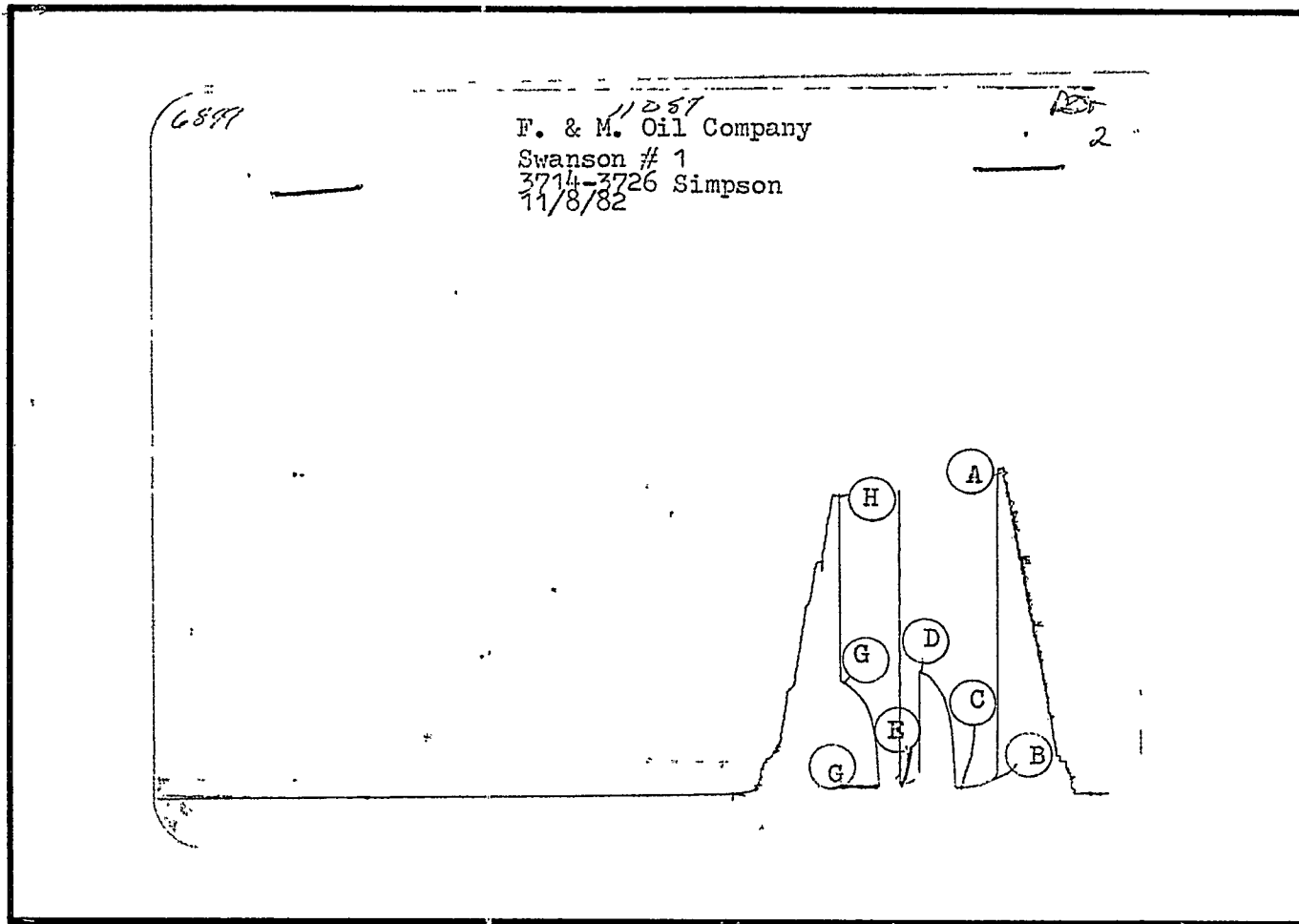
RECOVERED FEET OF

REMARKS None.

TICKET NO. 6899

WITNESSED BY K.W. Johnson

TOOL OPERATOR Craig Bucl



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1980	1991	P.S.I.
(B) First Initial Flow Pressure	58	88	P.S.I.
(C) First Final Flow Pressure	54	48	P.S.I.
(D) Initial Closed-in Pressure	771	771	P.S.I.
(E) Second Initial Flow Pressure	65	70	P.S.I.
(F) Second Final Flow Pressure	55	70	P.S.I.
(G) Final Closed-in Pressure	717	708	P.S.I.
(H) Final Hydrostatic Mud	1958	1848	P.S.I.