

SUPERIOR TESTERS

368 West Second, Hoisington, Kansas
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COMPANY Energy Three Inc. STATE Kansas COUNTY Barton

LEASE & WELL NO. Morgenstern # 1 ELEVATION 1860 KB. DATE 8/24/81 FORMATION TESTED Kansas City

SEC 35 TWP 17 RANGE 13 INTERVAL TESTED 3251 TO 3275 TOTAL DEPTH 3275

TEST NO. # 1 O.K. yes TOP PACKER DEPTH 3246 FT. BOTTOM PACKER DEPTH 3251 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 24 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 40 WEIGHT 10.1 DUAL PACKERS yes DID PACKER HOLD yes DID TOOL PLUG no

DRILLING CONTRACTOR Big Three Tested from 3251 To 3275 Packer Size 6 3/4 Anchor Length 24

TOOL JOINT SIZE 4 1/2 XH. IN. LENGTH DRILL PIPE 3210 FT. I.D. DRILL PIPE 3.75 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 9:30 p. m to 10:00 p. m Hr. 30 min From (B) 82 P.S.I. to (C) 113 P.S.I.

TOOL CLOSED I.C.I.P. FROM 10:00 p. m to 10:45 p. m Hr. 45 min (D) 1051 P.S.I.

TOOL OPEN F.F.P. FROM 10:45 p. m to 11:15 p. m Hr. 30 min From (E) 154 P.S.I. to (F) 175 P.S.I.

TOOL CLOSED F.C.I.P. FROM 11:15 p. m to 12:00 a.m. Hr. 45 min (G) 1020 P.S.I.

INITIAL HYDROSTATIC PRESSURE (A) 1752 P.S.I. FINAL HYDROSTATIC PRESSURE (H) 1741 MAXIMUM TEMPERATURE 101 °F

BLOW Strong blow off bottom of bucket in 1 minute 1st opening. P.S.I. 175

Strong blow off bottom of bucket in 2 minutes. P.S.I. 1020

RECOVERY - TOTAL FEET 525 ft. (A) 1752 P.S.I. Final Hydrostatic Pressure (H) 1741 P.S.I. Maximum Temp 101 °F

RECOVERED 525 FEET OF Frothy Oil.

RECOVERED ----- FEET OF Bottom of Bucket in 1 minute

RECOVERED ----- FEET OF Bottom of Bucket in 2 minutes

RECOVERED 90 Surface Min. Oil to ----- FEET OF Gas gauged: Min. Mud Weight 10.1 Viscosity 40

RECOVERED 11:03 p.m. FEET OF 11:03 p.m. - 4,150 cubic ft. in 24 hrs.

RECOVERED 11:08 p.m. FEET OF 11:08 p.m. - 4,960 cubic ft. in 24 hrs.

RECOVERED 11:13 p.m. FEET OF 11:13 p.m. - 5,440 cubic ft. in 24 hrs.

RECOVERED ----- FEET OF -----

RECOVERED 525' of frothy oil FEET OF -----

RECOVERED ----- FEET OF -----

RECOVERED ----- FEET OF -----

RECOVERED ----- FEET OF -----

RECOVERED ----- FEET OF -----

RECOVERED ----- FEET OF -----

REMARKS Equip. None. Safety Joint ----- Straddle ----- Hook Wall -----

Top Recorder No. 13779 Clock No. 6860

Bottom Recorder No. 3875 Clock No. 26182

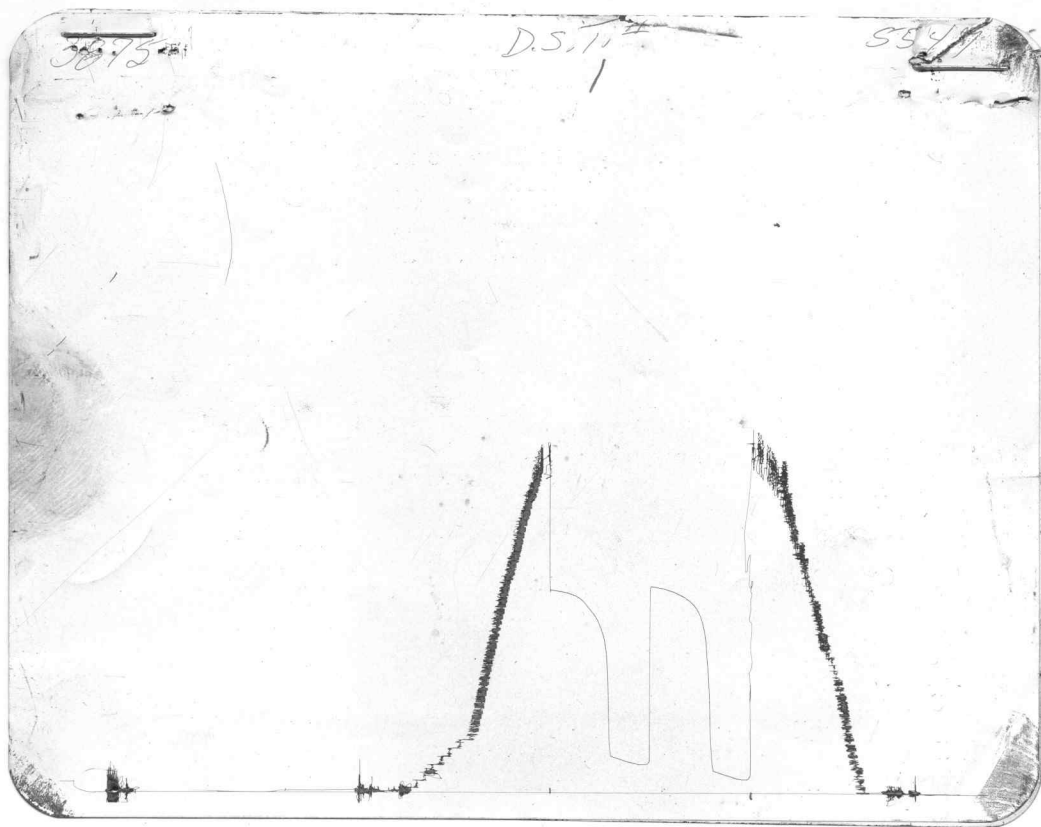
Price of Job \$600.00

Tool Operator Ivan Suppes

Approved By Steve Miller TICKET NO. 5547

WITNESSED BY: Steve Miller TOOL OPERATOR: Ivan Suppes

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.



This is actual recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1752	1671	P.S.I.
(B) First Initial Flow Pressure	82	82	P.S.I.
(C) First Final Flow Pressure	113	96	P.S.I.
(D) Initial Closed-in Pressure	1051	1003	P.S.I.
(E) Second Initial Flow Pressure	154	154	P.S.I.
(F) Second Final Flow Pressure	175	175	P.S.I.
(G) Final Closed-in Pressure	1020	974	P.S.I.
(H) Final Hydrostatic Mud	1741	1642	P.S.I.

368 West Second, Hoisington, Kansas

COMPANY Energy Three Inc. **STATE** Kansas **COUNTY** Barton

LEASE & WELL NO. Morgenstern # 1 **ELEVATION** 1860 KB. **DATE** 8/25/81 **FORMATION TESTED** Ks. City

SEC 35 **TWP** 17 **RANGE** 13 **INTERVAL TESTED** 3278 **TO** 3310 **TOTAL DEPTH** 3310

TEST NO. # 2 **O.K.** yes **TOP PACKER DEPTH** 3273 **FT. BOTTOM PACKER DEPTH** 3278 **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** 32 **FT.**

HOLE SIZE 7 & 7/8 **EXTRA EQUIPMENT** none **SURFACE CHOKE SIZE** 1/2 IN. **BOTTOM CHOKE SIZE** 1/2 **IN.**

REVERSED OUT no **VICOSITY** 41 **WEIGHT** 10. **DUAL PACKERS** yes **DID PACKER HOLD** yes **DID TOOL PLUG** no

DRILLING CONTRACTOR Big Three

TOOL JOINT SIZE 4 1/2 XH. **IN.** **LENGTH DRILL PIPE** 3257 **FT.** **I.D. DRILL PIPE** 3.75 **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 2:00 p.m. **to** 2:30 p.m. **Hr.** 30 **min From (B)** 61 **P.S.I. to (C)** 82 **P.S.I.**

TOOL CLOSED I.C.I.P. FROM 2:30 p.m. **to** 3:15 p.m. **Hr.** 45 **min (D)** 1061 **P.S.I.**

TOOL OPEN F.F.P. FROM 3:15 p.m. **to** 3:45 p.m. **Hr.** 30 **min From (E)** 82 **P.S.I. to (F)** 134 **P.S.I.**

TOOL CLOSED F.C.I.P. FROM 3:45 p.m. **to** 4:30 p.m. **Hr.** 45 **min (G)** 1020 **P.S.I.**

INITIAL HYDROSTATIC PRESSURE (A) 1893 **P.S.I.** **FINAL HYDROSTATIC PRESSURE (H)** 1872 **MAXIMUM TEMPERATURE** ----- **°F**

BLOW Strong blow off bottom of bucket in 1 1/2 minutes 1st opening.

Strong blow off bottom of bucket in 2 minutes 2nd opening.

RECOVERY - TOTAL FEET 280 ft.

RECOVERED 280 **FEET OF** Frothy Oil.

RECOVERED Had gas 2300' from top of tool.

RECOVERED Min. Oil to Surface **Min. Mud Weight** 10. **Viscosity** 91

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

RECOVERED FEET OF

REMARKS Extra Equipment-Jars none. **Safety Joint** ----- **Straddle** ----- **Hook Wall** -----

Top Recorder No. 13379 **Clock No.** 6P60

Bottom Recorder No. 3875 **Clock No.** 26182

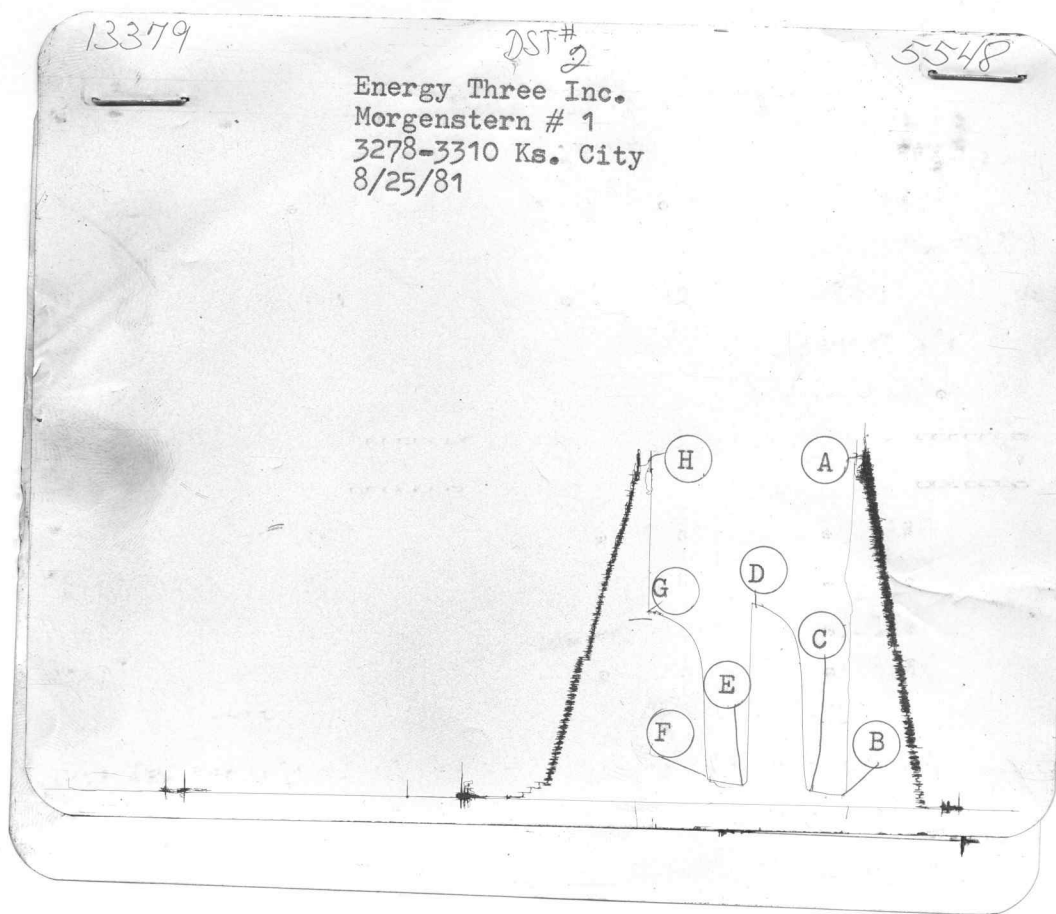
Price of Job \$1000.00

Tool Operator Ivan Suppes

Approved By Steve Miller **TICKET NO.** 5548

WITNESSED BY: Steve Miller **TOOL OPERATOR:** Ivan Suppes

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This is actual recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1893	1805	P.S.I.
(B) First Initial Flow Pressure	61	57	P.S.I.
(C) First Final Flow Pressure	82	77	P.S.I.
(D) Initial Closed-in Pressure	1061	994	P.S.I.
(E) Second Initial Flow Pressure	82	82	P.S.I.
(F) Second Final Flow Pressure	134	115	P.S.I.
(G) Final Closed-in Pressure	1020	945	P.S.I.
(H) Final Hydrostatic Mud	1872	1767	P.S.I.