

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ELMA WARD #1 Test No. 1 Date 11/15/93
Company CMX INC Zone CHEROKEE
Address 150 N MAIN #1026 WICHITA KS 67202 Elevation 2579 KB
Co. Rep./Geo. KEN LEBLANC Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 8 Twp. 18S Rge. 26W Co. NESS State KS

Interval Tested 4498-4566 Drill Pipe Size 4.5" XH
Anchor Length 68 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4493-4498 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4566 Mud Wt. 9.4 lb/Gal.
Total Depth 4630 Viscosity 47 Filtrate 8.8

Tool Open @ 1:12 PM Initial Blow WEAK SURFACE TO 3/4" IN 30 MINUTES
Final Blow NO BLOW

Recovery - Total Feet 20 Flush Tool? NO

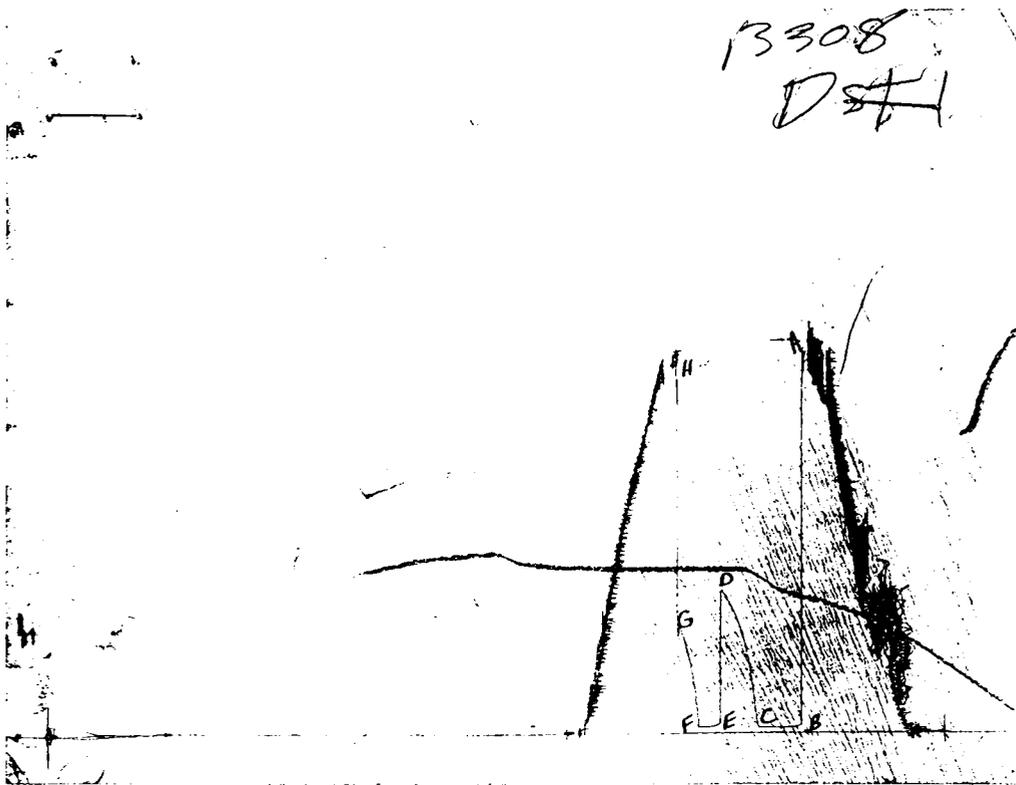
Rec. 20 Feet of SLIGHTLY OIL STAINED MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3900 ppm System

(A) Initial Hydrostatic Mud 2286.5 PSI AK1 Recorder No. 13308 Range 4700
(B) First Initial Flow Pressure 25.4 PSI @ (depth) 4500 w / Clock No. 17652
(C) First Final Flow Pressure 25.4 PSI AK1 Recorder No. 11057 Range 4500
(D) Initial Shut-in Pressure 855.4 PSI @ (depth) 4561 w / Clock No. 27566
(E) Second Initial Flow Pressure 26.5 PSI AK1 Recorder No. 2023 Range 4000
(F) Second Final Flow Pressure 26.5 PSI @ (depth) 4625 w / Clock No. 7452
(G) Final Shut-in Pressure 644.3 PSI Initial Opening 30 Final Flow 15
(H) Final Hydrostatic Mud 2247.6 PSI Initial Shut-in 30 Final Shut-in 15

Our Representative MARK HERSKOWITZ

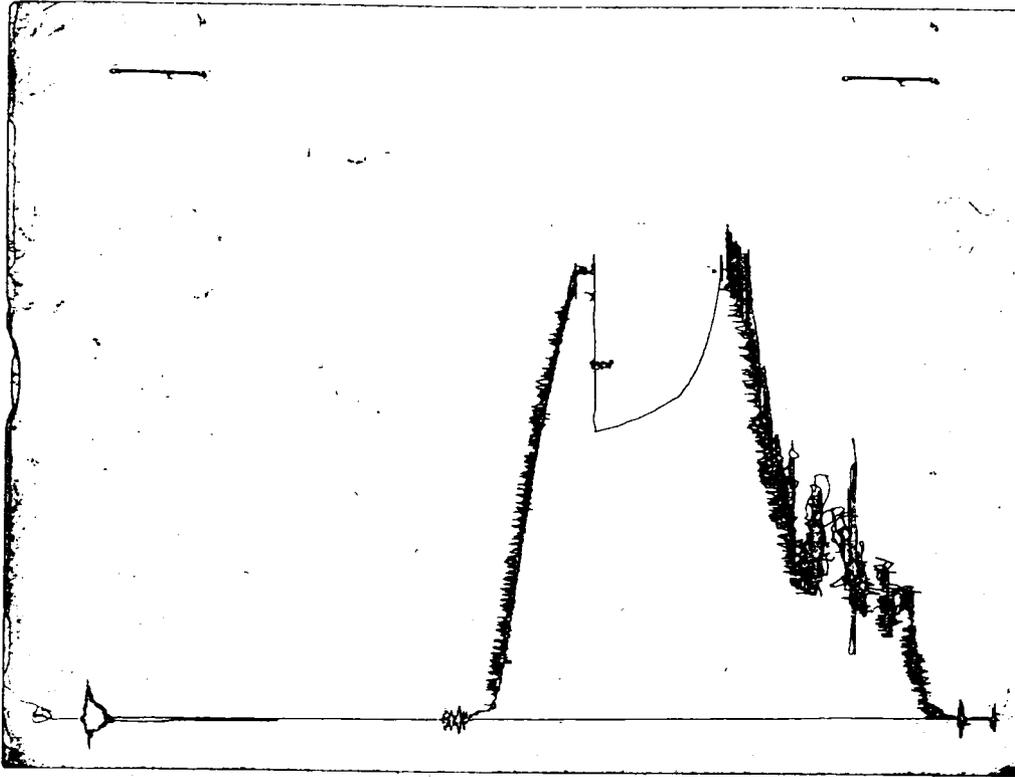
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2282	2286.5
(B) FIRST INITIAL FLOW PRESSURE	24	25.4
(C) FIRST FINAL FLOW PRESSURE	24	25.4
(D) INITIAL CLOSED-IN PRESSURE	853	855.4
(E) SECOND INITIAL FLOW PRESSURE	24	26.5
(F) SECOND FINAL FLOW PRESSURE	24	26.5
(G) FINAL CLOSED-IN PRESSURE	642	644.3
(H) FINAL HYDROSTATIC MUD	2247	2247.6

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD