

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DELBERT FOX "A" #1 Test No. 1 Date 8/18/92
Company CHARTER PRODUCTION COMPANY Zone KS CITY
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 2702
Co. Rep./Geo. CHUCK SCHMALTZ Cont. ZENITH DRLG RIG #6 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested 4735-4773 Drill Pipe Size 4.5" XH
Anchor Length 38 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4730 Drill Collar - 2.25 Ft. Run 580
Bottom Packer Depth 4735 Mud Wt. _____ 8.8 lb/Gal.
Total Depth 4773 Viscosity 50 Filtrate 8.8

Tool Open @ 9:15 PM Initial Blow WEAK 9" BLOW IN 30 MINUTES
NO BLOW BACK ON SHUT IN
Final Blow WEAK 12" BLOW IN 50 MINUTES
NO BLOW BACK ON SHUT IN

Recovery - Total Feet 550 Flush Tool? NO

Rec. 550 Feet of GAS CUT MUD-5%GAS/95%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4500 ppm System

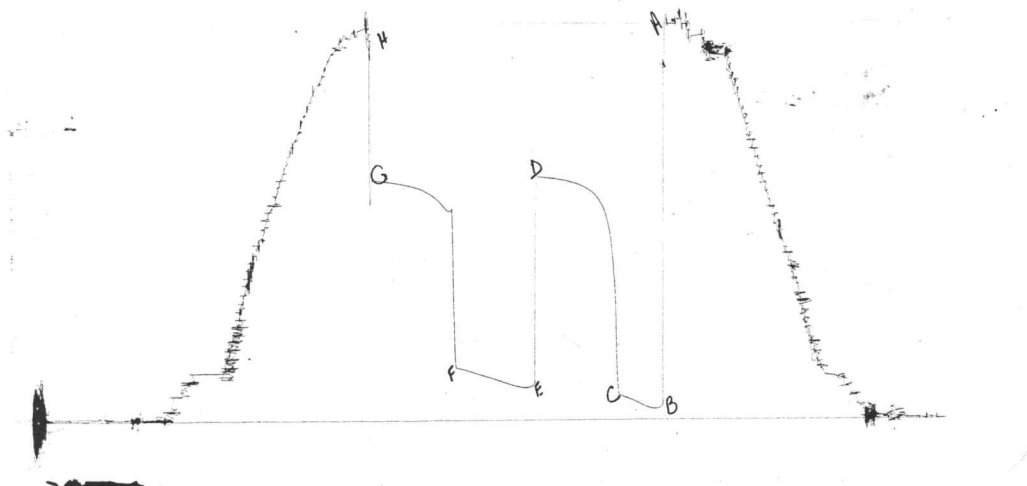
(A) Initial Hydrostatic Mud 2295.6 PSI AK1 Recorder No. 13851 Range 4425
(B) First Initial Flow Pressure 63.7 PSI @ (depth) 4739 w / Clock No. 26191
(C) First Final Flow Pressure 141.2 PSI AK1 Recorder No. 13850 Range 4325
(D) Initial Shut-in Pressure 1397.8 PSI @ (depth) 4770 w / Clock No. 17652
(E) Second Initial Flow Pressure 210.5 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 302.6 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1360.9 PSI Initial Opening 30 Final Flow 60
(H) Final Hydrostatic Mud 2215.8 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative STEVE BOWMAN

CHART PAGE

DST # 1

13851



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2290	2295.6
(B) FIRST INITIAL FLOW PRESSURE	64	63.7
(C) FIRST FINAL FLOW PRESSURE	138	141.2
(D) INITIAL CLOSED-IN PRESSURE	1390	1397.8
(E) SECOND INITIAL FLOW PRESSURE	202	210.5
(F) SECOND FINAL FLOW PRESSURE	299	302.6
(G) FINAL CLOSED-IN PRESSURE	1357	1360.9
(H) FINAL HYDROSTATIC MUD	2213	2215.8

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Drill-Stem Test Data

Well Name DELBERT FOX "A" #1 Test No. 2 Date 8/22/92
Company CHARTER PRODUCTION COMPANY Zone MORROW
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 2702
Co. Rep./Geo. CHUCK SCHMALTZ Cont. ZENITH DRLG RIG #6 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 33S Rge. 30W Co. MEADE State KS

Interval Tested <u>5662-5790</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>128</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>5657</u>	Drill Collar - 2.25 Ft. Run <u>580</u>
Bottom Packer Depth <u>5662</u>	Mud Wt. _____ <u>8.9</u> lb/Gal.
Total Depth _____	Viscosity <u>42</u> Filtrate <u>8.8</u>

Tool Open @ _____ Initial Blow (MISRUN) - HIT A BRIDGE AT 4200'

Final Blow _____

Recovery - Total Feet _____ Flush Tool? NO

Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure _____ PSI @ (depth) 5759 w / Clock No. 26191

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5787 w / Clock No. 17652

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

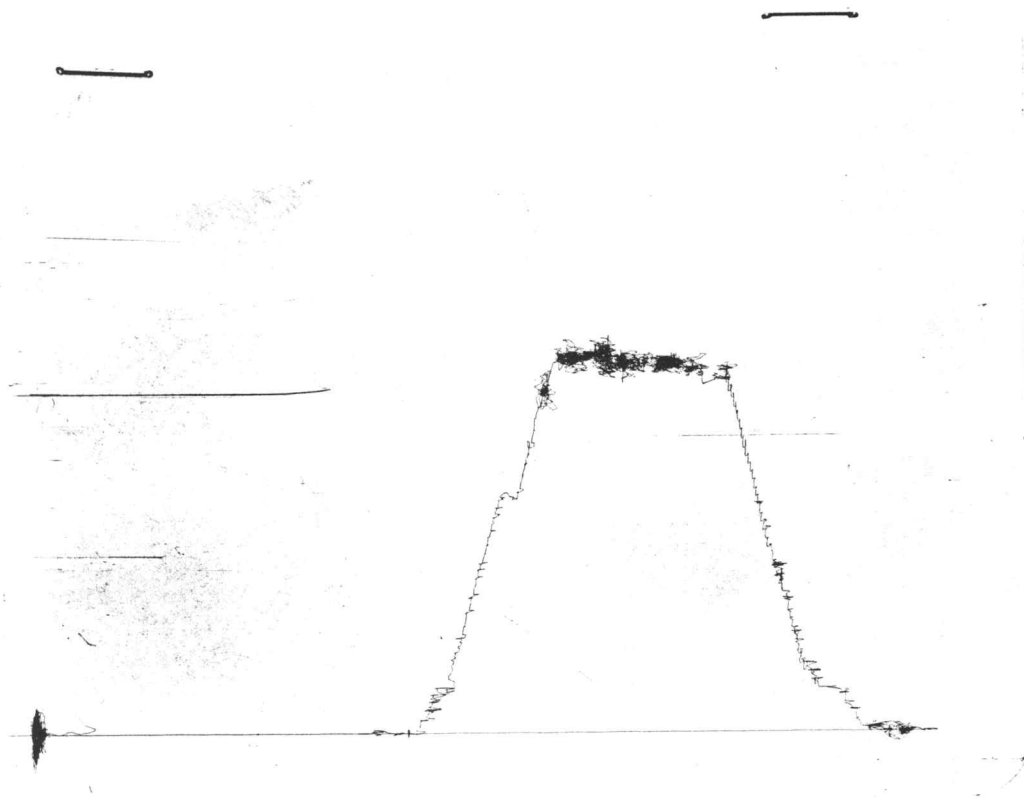
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in _____ Final Shut-in _____

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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