

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name EMMERAN #B-1 Test No. 1 Date 12/15/94
Company E.S.P. DEVELOPMENT INC Zone UPPER KC
Address 17746 171ST BLVD, PARADISE, KS 67658 Elevation 2018
Co. Rep./Geo. RANDY KILIAN Cont. VONFELDT DRILLING #1 Est. Ft. of Pay _____
Location: Sec. 32 Twp. 12S Rge. 16W Co. ELLIS State KS

Interval Tested <u>3286-3349</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>63</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3281</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3286</u>	Mud Wt. <u>9</u> lb/Gal.
Total Depth <u>3349</u>	Viscosity <u>50</u> Filtrate <u>8.8</u>

Tool Open @ 9:54AM Initial Blow WEAK, BUILDING TO 12" FAIR BLOW.

Final Blow WEAK, BUILDING TO 10".

Recovery - Total Feet 248 Flush Tool? NO

Rec. <u>62</u>	Feet of <u>DRILLING MUD. 100%</u>
Rec. <u>186</u>	Feet of <u>MUDDY WATER.</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.12 @ 78 °F Chlorides 60,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 1654.0 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 52.2 PSI @ (depth) 3290 w / Clock No. 25810

(C) First Final Flow Pressure 82.7 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 394.7 PSI @ (depth) 3345 w / Clock No. 27501

(E) Second Initial Flow Pressure 108.3 PSI AK1 Recorder No. _____ Range _____

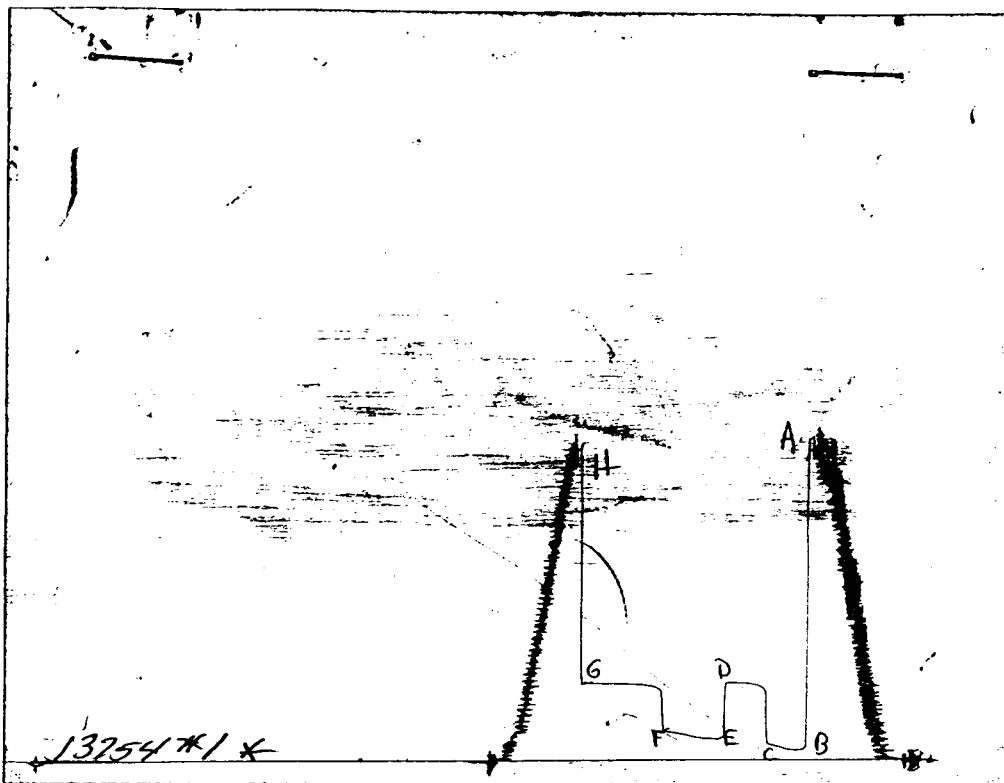
(F) Second Final Flow Pressure 145.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 395.7 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1605.0 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1686	1654
(B) FIRST INITIAL FLOW PRESSURE	59	52.2
(C) FIRST FINAL FLOW PRESSURE	88	82.7
(D) INITIAL CLOSED-IN PRESSURE	403	394.7
(E) SECOND INITIAL FLOW PRESSURE	118	108.3
(F) SECOND FINAL FLOW PRESSURE	157	145.7
(G) FINAL CLOSED-IN PRESSURE	393	395.7
(H) FINAL HYDROSTATIC MUD	1636	1605

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Drill-Stem Test Data

Well Name EMMERAN #B-1 Test No. 2 Date 12/16/94
Company E.S.P. DEVELOPMENT INC Zone H-I-J-K LKC
Address 17746 171ST BLVD, PARADISE, KS 67658 Elevation 2018
Co. Rep./Geo. RANDY KILIAN Cont. VONFELDT DRILLING #1 Est. Ft. of Pay _____
Location: Sec. 32 Twp. 12S Rge. 16W Co. ELLIS State KS

Interval Tested <u>3371-3459</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>88</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3366</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3371</u>	Mud Wt. <u>8.7</u> lb/Gal.
Total Depth <u>3459</u>	Viscosity <u>37</u> Filtrate <u>11.2</u>

Tool Open @ 2:22AM Initial Blow WEAK - 1/4" BLOW DECREASING TO WEAK SURFACE BLOW.

Final Blow WEAK SURFACE BLOW.

Recovery - Total Feet 25 Flush Tool? NO

Rec. <u>25</u>	Feet of <u>SLIGHTLY OIL CUT MUD.</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 1737.0 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 51.2 PSI @ (depth) 3375 w / Clock No. 25810

(C) First Final Flow Pressure 51.2 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 393.7 PSI @ (depth) 3455 w / Clock No. 27501

(E) Second Initial Flow Pressure 57.1 PSI AK1 Recorder No. _____ Range _____

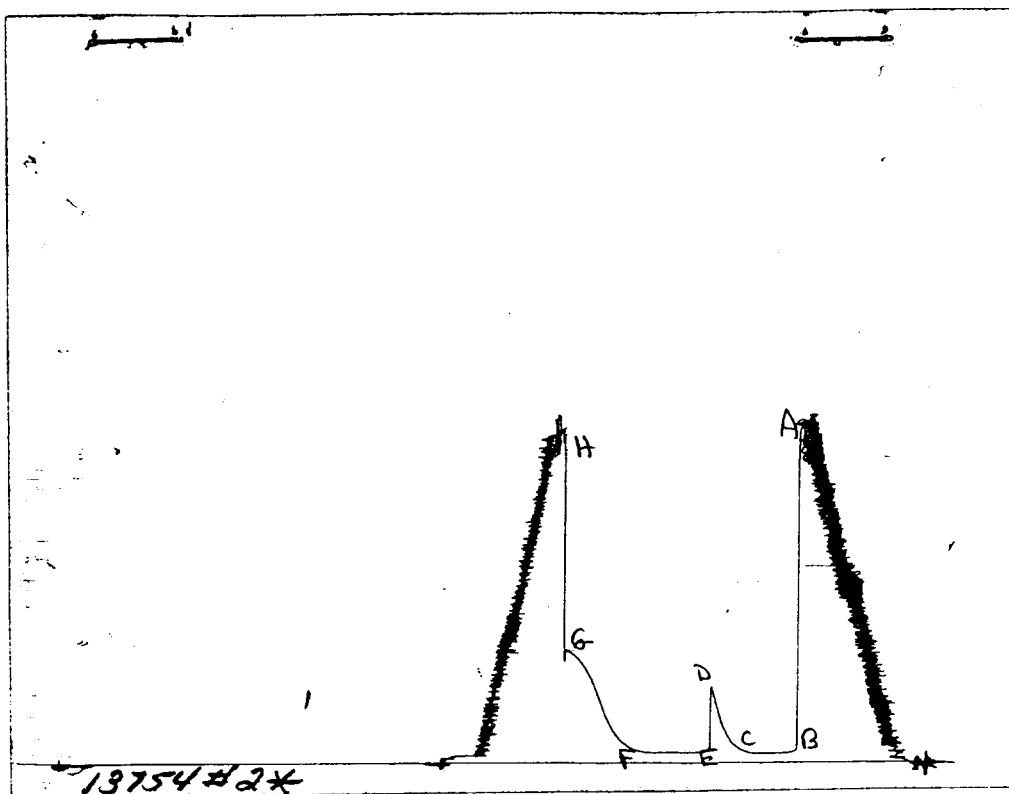
(F) Second Final Flow Pressure 57.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 687.7 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1714.0 PSI Initial Shut-in 30 Final Shut-in 60

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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1796	1737
(B) FIRST INITIAL FLOW PRESSURE	49	51.2
(C) FIRST FINAL FLOW PRESSURE	49	51.2
(D) INITIAL CLOSED-IN PRESSURE	393	393.7
(E) SECOND INITIAL FLOW PRESSURE	59	57.1
(F) SECOND FINAL FLOW PRESSURE	59	57.1
(G) FINAL CLOSED-IN PRESSURE	571	687.7
(H) FINAL HYDROSTATIC MUD	1736	1714