

TRILOBITE TESTING, L.L.C.

P.O. Box 362 - Hays, Kansas 67601

Drill-Stem Test Data

Well Name CALIHAN #1-23 Test No. 1 Date 8/16/93
Company BEREXCO INC Zone PAWNEE
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2890
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG #2 Est. Ft. of Pay _____
Location: Sec. 8 Twp. 22S Rge. 33W Co. FINNEY State KS

Interval Tested 4445-4460
Anchor Length 15
Top Packer Depth 4440
Bottom Packer Depth 4445
Total Depth 4460

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 612
Mud Wt. 9.1 lb/Gal.
Viscosity 60 Filtrate 8.0

Tool Open @ 10:05 PM Initial Blow WEAK SURFACE BLOW DIED IN 5 MINUTES

Final Blow NO RETURN - FLUSHED TOOL / GOOD SURGE - NO HELP

Recovery - Total Feet 30 Flush Tool? YES

Rec. 30 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 2216.3 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 26.1 PSI @ (depth) 4450 w / Clock No. 25810

(C) First Final Flow Pressure 26.1 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 549.7 PSI @ (depth) 4455 w / Clock No. 22992

(E) Second Initial Flow Pressure 57.2 PSI AK1 Recorder No. _____ Range _____

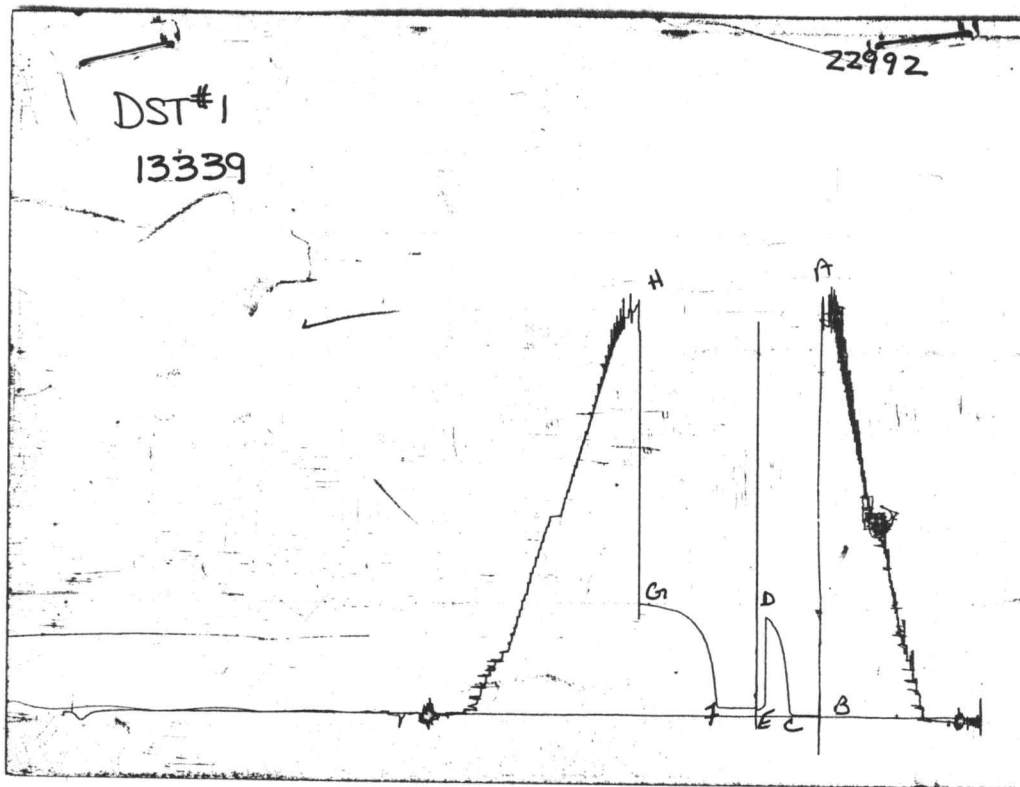
(F) Second Final Flow Pressure 57.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 628.4 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 2196.3 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2203	2216.3
(B) FIRST INITIAL FLOW PRESSURE	20	26.1
(C) FIRST FINAL FLOW PRESSURE	20	26.1
(D) INITIAL CLOSED-IN PRESSURE	539	549.7
(E) SECOND INITIAL FLOW PRESSURE	52	57.2
(F) SECOND FINAL FLOW PRESSURE	52	57.2
(G) FINAL CLOSED-IN PRESSURE	619	628.4
(H) FINAL HYDROSTATIC MUD	2183	2196.3

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Drill-Stem Test Data

Well Name CALIHAN #1-23 Test No. 2 Date 8/18/93
Company BEREXCO INC Zone ST LOUIS
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2890
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO RIG #2 Est. Ft. of Pay 6
Location: Sec. 8 Twp. 22S Rge. 33W Co. FINNEY State KS

Interval Tested 4750-4775
Anchor Length 25
Top Packer Depth 4745
Bottom Packer Depth 4750
Total Depth 4775

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 612
Mud Wt. 9 lb/Gal.
Viscosity 60 Filtrate 8.6

Tool Open @ 11:05 AM Initial Blow WEAK SURFACE BLOW DIED IN 9 MINUTES

Final Blow NO RETURN BLOW

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD WITH FEW SPECKS OIL IN TOOL
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 1200 ppm System

(A) Initial Hydrostatic Mud 2322.4 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 33.6 PSI @ (depth) 4765 w / Clock No. 22992

(C) First Final Flow Pressure 35.8 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 85.9 PSI @ (depth) 4770 w / Clock No. 25810

(E) Second Initial Flow Pressure 40.2 PSI AK1 Recorder No. _____ Range _____

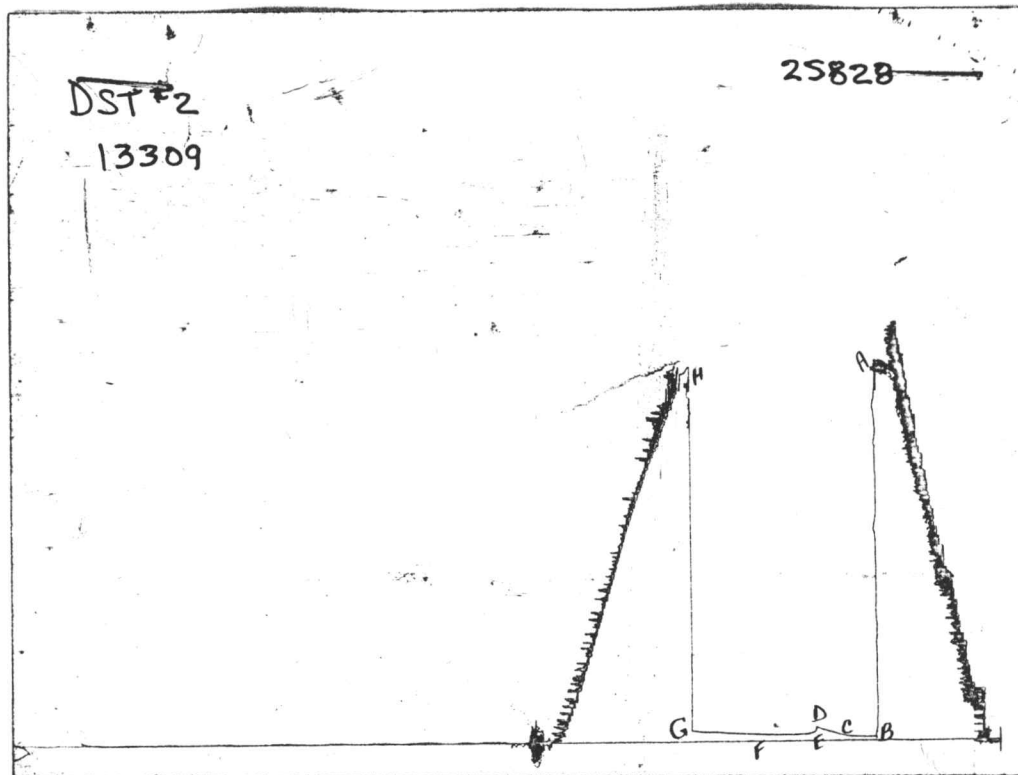
(F) Second Final Flow Pressure 41.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 64.7 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 2301.1 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	2313	2322.4
(B) FIRST INITIAL FLOW PRESSURE	31	33.6
(C) FIRST FINAL FLOW PRESSURE	31	35.8
(D) INITIAL CLOSED-IN PRESSURE	83	85.9
(E) SECOND INITIAL FLOW PRESSURE	41	40.2
(F) SECOND FINAL FLOW PRESSURE	41	41.3
(G) FINAL CLOSED-IN PRESSURE	62	64.7
(H) FINAL HYDROSTATIC MUD	2293	2301.1