

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SANTA FE #1-33 Test No. 1 Date 2/15/94
Company BEREXCO INC Zone MORROW
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 3317
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #7 Est. Ft. of Pay 15
Location: Sec. 33 Twp. 30S Rge. 40W Co. STANTON State KS

Interval Tested <u>5010-5131</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>121</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>566</u>
Top Packer Depth <u>5005</u>	Drill Collar - 2.25 Ft. Run <u>9</u>
Bottom Packer Depth <u>5010</u>	Mud Wt. <u>52</u> lb/Gal.
Total Depth <u>5131</u>	Viscosity <u>7</u> Filtrate <u>7</u>

Tool Open @ 1:00 AM Initial Blow FAIR BLOW INCREASING TO 10"

Final Blow WEAK BLOW BUILT TO 6"

Recovery - Total Feet 60 Flush Tool? NO

Rec. <u>60</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity 450 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2347.8 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 56.3 PSI @ (depth) 5013 w / Clock No. 25810

(C) First Final Flow Pressure 43.4 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 113.6 PSI @ (depth) 5128 w / Clock No. 14389

(E) Second Initial Flow Pressure 67.2 PSI AK1 Recorder No. _____ Range _____

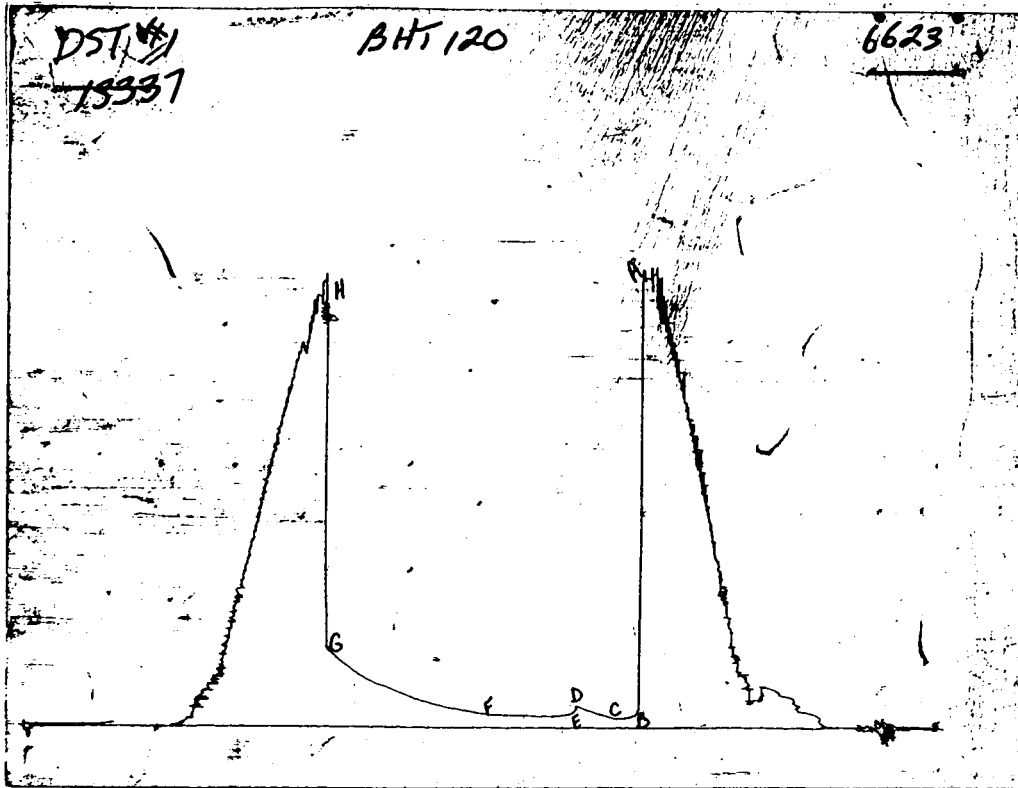
(F) Second Final Flow Pressure 65.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 393.3 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 2171.8 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart

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(A) INITIAL HYDROSTATIC MUD	2346	2347.8
(B) FIRST INITIAL FLOW PRESSURE	71	56.3
(C) FIRST FINAL FLOW PRESSURE	71	43.4
(D) INITIAL CLOSED-IN PRESSURE	142	113.6
(E) SECOND INITIAL FLOW PRESSURE	91	67.2
(F) SECOND FINAL FLOW PRESSURE	91	65.2
(G) FINAL CLOSED-IN PRESSURE	436	393.3
(H) FINAL HYDROSTATIC MUD	2204	2171.8

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Drill-Stem Test Data

Well Name SANTA FE #1-33 Test No. 2 Date 2/17/94
Company BEREXCO INC Zone MORROW
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 3317
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #7 Est. Ft. of Pay 20
Location: Sec. 33 Twp. 30S Rge. 40W Co. STANTON State KS

Interval Tested 5273-5306 Drill Pipe Size 4.5" XH
Anchor Length 33 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5268 Drill Collar - 2.25 Ft. Run 659
Bottom Packer Depth 5273 Mud Wt. 8.9 lb/Gal.
Total Depth 5306 Viscosity 60 Filtrate 6

Tool Open @ 7:10 AM Initial Blow STRONG BLOW BUILT TO BOTTOM IN 2 MINUTES

Final Blow STRONG BLOW BUILT TO BOTTOM IN 3 MINUTES

Recovery - Total Feet 2520 Flush Tool? NO

Rec. 90 Feet of WATERY MUD-20% WTR/ 80% MUD
Rec. 2430 Feet of SLTLY GAS CUT SALT WATER- 2% GAS/ 98% WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 139 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.21 @ 59 °F Chlorides 70000 ppm Recovery Chlorides 500 ppm System

(A) Initial Hydrostatic Mud 2432.8 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 224.2 PSI @ (depth) _____ w / Clock No. 25810

(C) First Final Flow Pressure 533.4 PSI AK1 Recorder No. 10333 Range 4050

(D) Initial Shut-in Pressure 1479.0 PSI @ (depth) _____ w / Clock No. 14389

(E) Second Initial Flow Pressure 654.2 PSI AK1 Recorder No. _____ Range _____

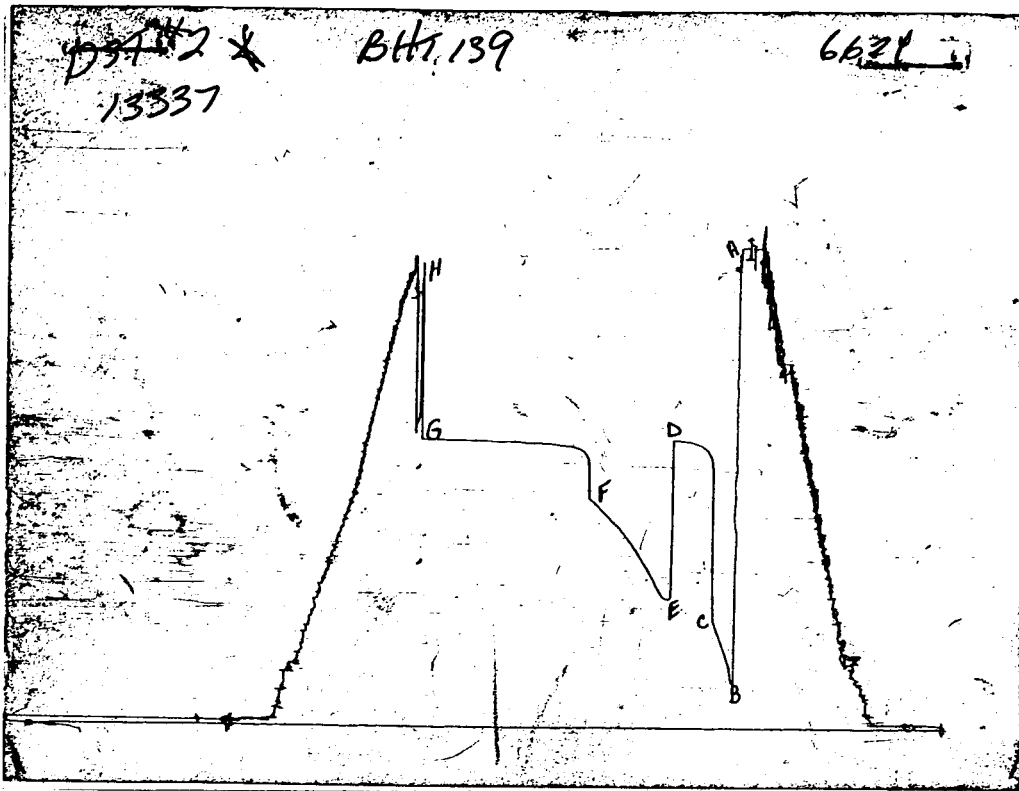
(F) Second Final Flow Pressure 1166.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1472.0 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 2367.6 PSI Initial Shut-in 30 Final Shut-in 120

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CHART PAGE



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(A) INITIAL HYDROSTATIC MUD	2456	2432.8
(B) FIRST INITIAL FLOW PRESSURE	277	224.2
(C) FIRST FINAL FLOW PRESSURE	533	533.4
(D) INITIAL CLOSED-IN PRESSURE	1174	1479
(E) SECOND INITIAL FLOW PRESSURE	651	654.2
(F) SECOND FINAL FLOW PRESSURE	1144	1166.6
(G) FINAL CLOSED-IN PRESSURE	1474	1472
(H) FINAL HYDROSTATIC MUD	2367	2367.6