

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name RHEA #1-10 Test No. 1 Date 3/30/95
Company WHITE & ELLIS DRILLING INC Zone H-I LKC
Address P O BOX 48848, WICHITA, KS 67201-8848 Elevation 3131
Co. Rep./Geo. JOE BAKER Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 10 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4220-4282 Drill Pipe Size 4.5" XH
Anchor Length 62 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4215 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4220 Mud Wt. 9.1 lb/Gal.
Total Depth 4282 Viscosity 48 Filtrate 9.6

Tool Open @ 5:30AM Initial Blow WEAK BUILDING TO STRONG. BOTTOM OF BUCKET IN 35 MINUTES.

Final Blow WEAK BUILDING TO 1 INCH.

Recovery - Total Feet 180 Flush Tool? NO

Rec. 180 Feet of MUD WITH SHOW. FREE OIL ON TOP.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2090.10 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 51.20 PSI @ (depth) 4224 w / Clock No. 25810

(C) First Final Flow Pressure 62.00 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1241.00 PSI @ (depth) 4278 w / Clock No. 25108

(E) Second Initial Flow Pressure 81.70 PSI AK1 Recorder No. _____ Range _____

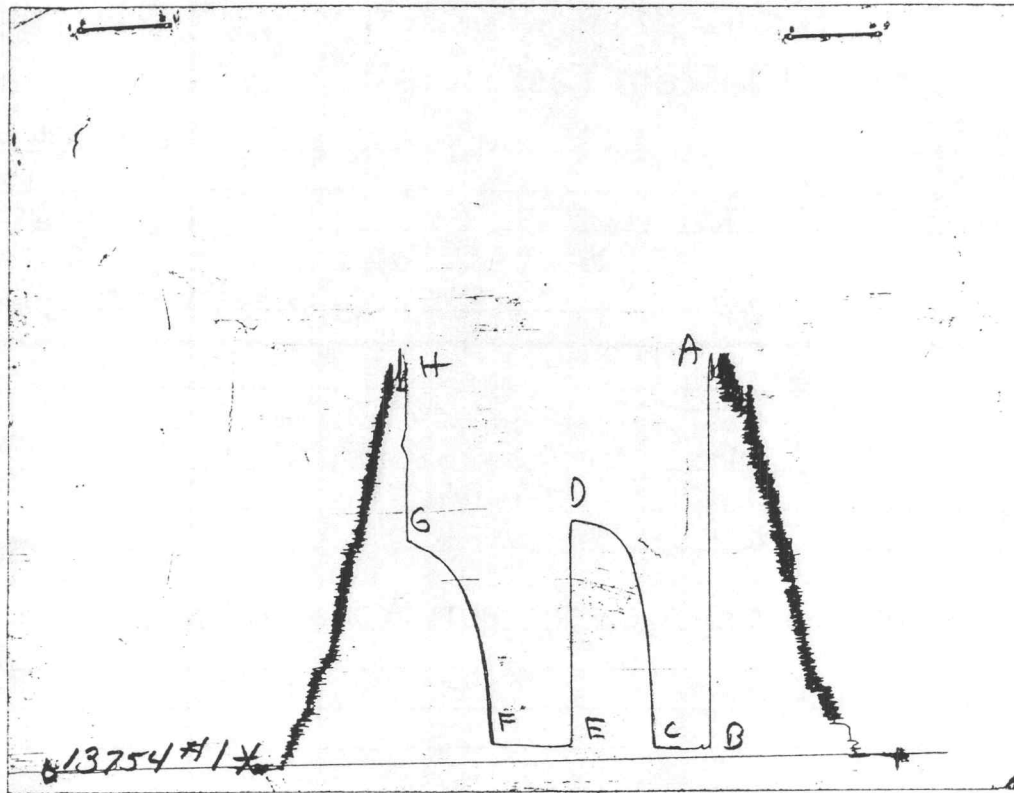
(F) Second Final Flow Pressure 96.50 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1148.00 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 2069.90 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2036	2090.10
(B) FIRST INITIAL FLOW PRESSURE	49	51.20
(C) FIRST FINAL FLOW PRESSURE	59	62.00
(D) INITIAL CLOSED-IN PRESSURE	1236	1241.00
(E) SECOND INITIAL FLOW PRESSURE	78	81.70
(F) SECOND FINAL FLOW PRESSURE	88	96.50
(G) FINAL CLOSED-IN PRESSURE	1136	1148.00
(H) FINAL HYDROSTATIC MUD	1986	2069.90

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Drill-Stem Test Data

Well Name RHEA #1-10 Test No. 2 Date 3/30/95
Company WHITE & ELLIS DRILLING INC Zone J LKC
Address P O BOX 48848, WICHITA, KS 67201-8848 Elevation 3131
Co. Rep./Geo. JOE BAKER Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 10 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4276-4306 Drill Pipe Size 4.5" XH
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4271 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4276 Mud Wt. 9.3 lb/Gal.
Total Depth 4306 Viscosity 53 Filtrate 9.2

Tool Open @ 7:45PM Initial Blow PACKER FAILURE. MISRUN.

Final Blow _____

Recovery - Total Feet 310 Flush Tool? NO

Rec. 310 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 4000 ppm System

(A) Initial Hydrostatic Mud 2127.00 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure _____ PSI @ (depth) 4280 w / Clock No. 25810

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

(D) Initial Shut-in Pressure _____ PSI @ (depth) 4302 w / Clock No. 25108

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

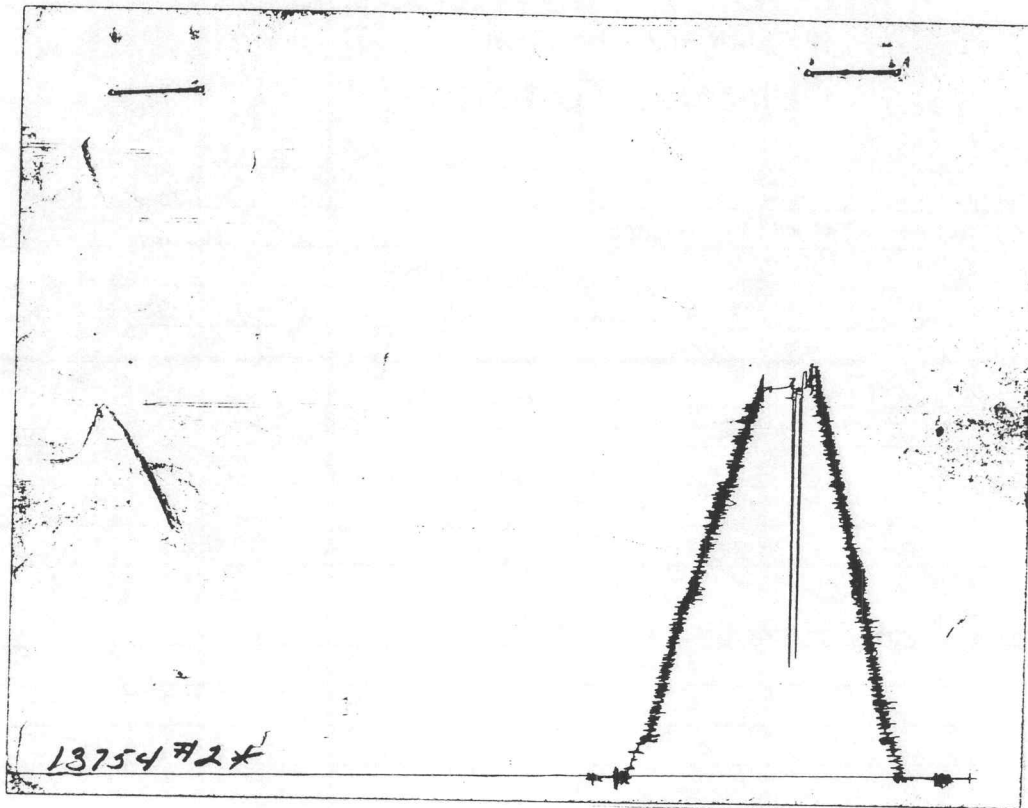
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

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

(H) Final Hydrostatic Mud 2016.00 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

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Drill-Stem Test Data

Well Name RHEA #1-10 Test No. 3 Date 3/30/95
Company WHITE & ELLIS DRILLING INC Zone J LKC
Address P O BOX 48848, WICHITA, KS 67201-8848 Elevation 3131
Co. Rep./Geo. JOE BAKER Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 10 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4271-4306 Drill Pipe Size 4.5" XH
Anchor Length 35 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4266 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4271 Mud Wt. 9.3 lb/Gal.
Total Depth 4306 Viscosity 53 Filtrate 9.2

Tool Open @ 11:50PM Initial Blow STRONG - BOTTOM OF BUCKET IN 6 MINUTES.

Final Blow WEAK - BUILDING TO 5 INCHES.

Recovery - Total Feet 340 Flush Tool? NO

Rec. 120 Feet of DRILLING MUD.
Rec. 220 Feet of SLIGHT OIL CUT WTRY GASSY MUD. 20%GAS;25OIL;20%WTR;58%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 2115.40 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 102.40 PSI @ (depth) 4275 w / Clock No. 25810

(C) First Final Flow Pressure 123.00 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 1032.00 PSI @ (depth) 4302 w / Clock No. 25108

(E) Second Initial Flow Pressure 145.70 PSI AK1 Recorder No. _____ Range _____

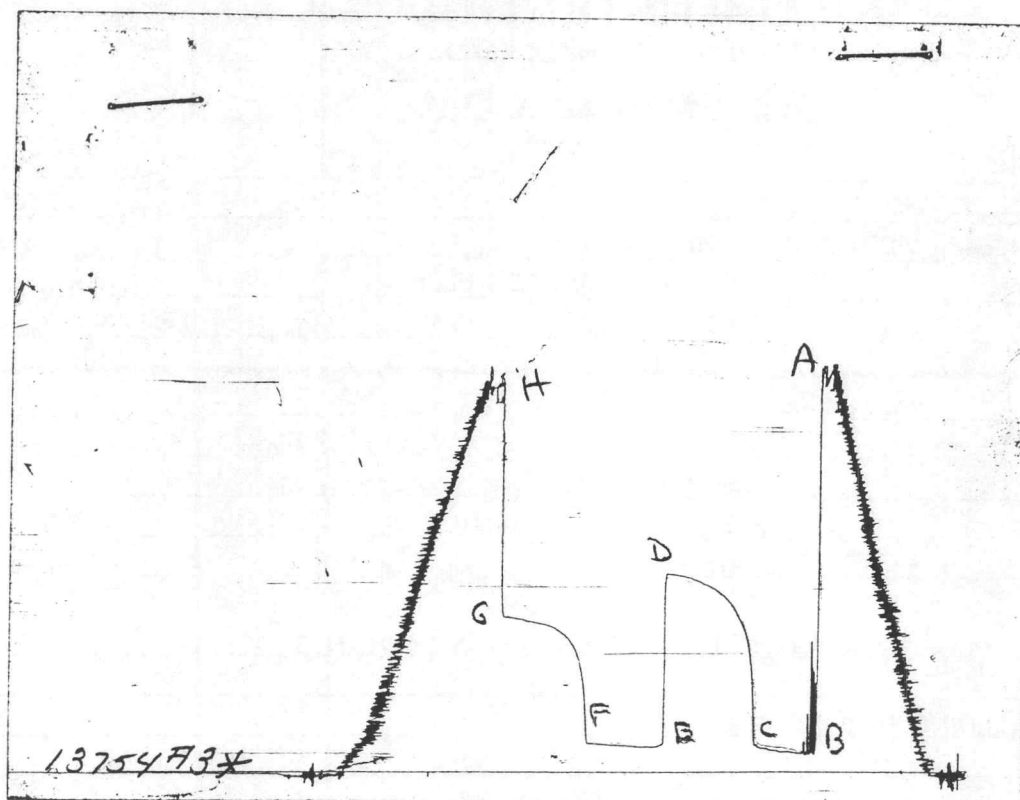
(F) Second Final Flow Pressure 163.40 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 808.30 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 2079.00 PSI Initial Shut-in 60 Final Shut-in 60

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CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2117	2115.40
(B) FIRST INITIAL FLOW PRESSURE	98	102.40
(C) FIRST FINAL FLOW PRESSURE	137	123.00
(D) INITIAL CLOSED-IN PRESSURE	1016	1032.00
(E) SECOND INITIAL FLOW PRESSURE	137	145.70
(F) SECOND FINAL FLOW PRESSURE	157	163.40
(G) FINAL CLOSED-IN PRESSURE	798	808.30
(H) FINAL HYDROSTATIC MUD	2016	2079.00

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Drill-Stem Test Data

Well Name RHEA #1-10 Test No. 4 Date 3/31/95
Company WHITE & ELLIS DRILLING INC Zone JOHNSON
Address P O BOX 48848, WICHITA, KS 67201-8848 Elevation 3131
Co. Rep./Geo. JOE BAKER Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 10 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4600-4640 Drill Pipe Size 4.5" XH
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4595 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4600 Mud Wt. 9.3 lb/Gal.
Total Depth 4640 Viscosity 50 Filtrate 8

Tool Open @ 9:40AM Initial Blow WEAK - DIED IN 30 MINUTES.

Final Blow NO BLOW.

Recovery - Total Feet 15 Flush Tool? NO

Rec. 15 Feet of DRILLING MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2523.40 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 31.50 PSI @ (depth) 4604 w / Clock No. 25810

(C) First Final Flow Pressure 74.80 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 618.60 PSI @ (depth) 4636 w / Clock No. 25108

(E) Second Initial Flow Pressure 24.60 PSI AK1 Recorder No. _____ Range _____

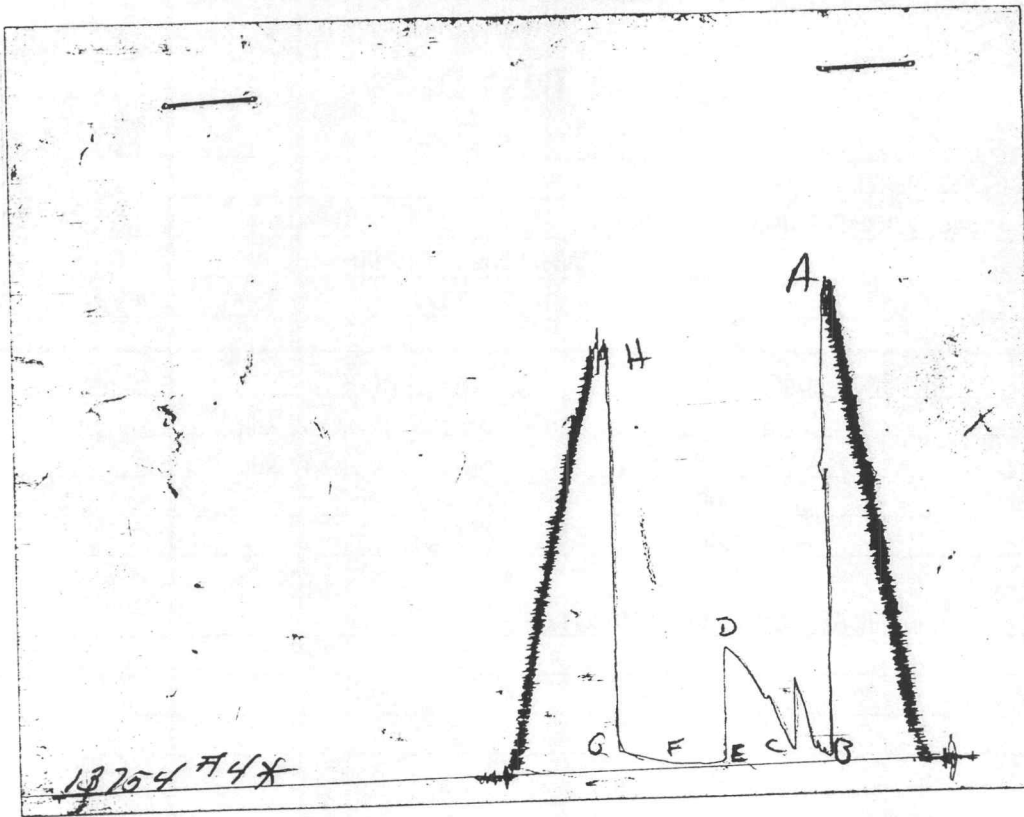
(F) Second Final Flow Pressure 32.50 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 107.30 PSI Initial Opening 45 Final Flow 30

(H) Final Hydrostatic Mud 2238.80 PSI Initial Shut-in 30 Final Shut-in 30

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2522	2523.40
(B) FIRST INITIAL FLOW PRESSURE	39	31.50
(C) FIRST FINAL FLOW PRESSURE	0	74.80
(D) INITIAL CLOSED-IN PRESSURE	610	618.60
(E) SECOND INITIAL FLOW PRESSURE	29	24.60
(F) SECOND FINAL FLOW PRESSURE	29	32.50
(G) FINAL CLOSED-IN PRESSURE	98	107.30
(H) FINAL HYDROSTATIC MUD	2238	2238.80