

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WERNER #3 Test No. 1 Date 10/30/94  
Company WHITE & ELLIS DRILLING Zone KC-SWOPE  
Address P.O. BOX 48848 WICHITA KS 67201 Elevation 1450  
Co. Rep./Geo. TOM FUNK Cont. WHITE & ELLIS #8 Est. Ft. of Pay 5  
Location: Sec. 23 Twp. 32S Rge. 10W Co. BARBER State KS

Interval Tested 4078-4105 Drill Pipe Size 4.5" XH  
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4073 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4078 Mud Wt. 9 lb/Gal.  
Total Depth 4105 Viscosity 43 Filtrate 12

Tool Open @ 7:35AM Initial Blow WEAK BLOW - BUILT TO 9"  
ISI: NO BLOW BACK  
Final Blow WEAK BLOW - BUILT TO BOTTOM OF BUCKET IN 43 MINUTES  
FSI: NO BLOW BACK

Recovery - Total Feet 90 Flush Tool? NO

Rec. 220 Feet of GAS IN PIPE  
Rec. 30 Feet of VERY SLIGHTLY OIL CUT MUD 2%OIL/98%MUD  
Rec. 60 Feet of SLIGHTLY GAS CUT WATERY MUD 5%GAS/30%WATER/60%MUD  
Rec. \_\_\_\_\_ Feet of 5%EMULSION  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 110 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.168 @ 65 °F Chlorides 50000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2042.5 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 20.3 PSI @ (depth) 4081 w / Clock No. 26191

(C) First Final Flow Pressure 20.3 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 1223.3 PSI @ (depth) 4102 w / Clock No. 8698

(E) Second Initial Flow Pressure 71.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

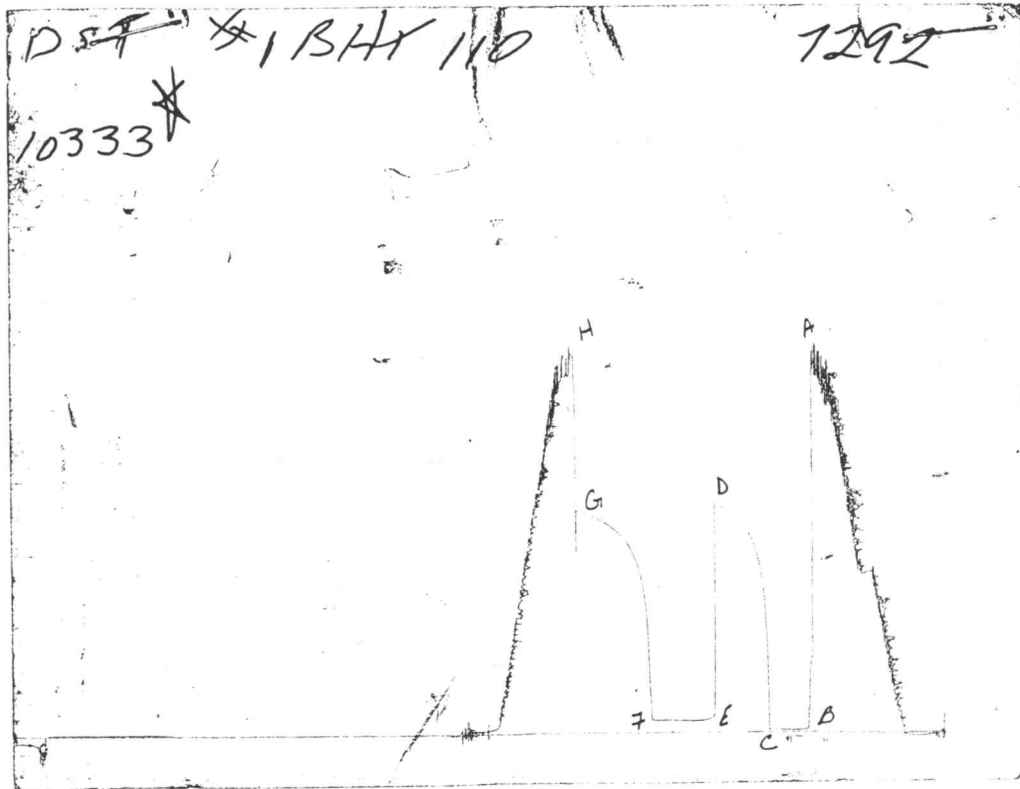
(F) Second Final Flow Pressure 71.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1189.5 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2029.2 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2032	2042.5
(B) FIRST INITIAL FLOW PRESSURE	10	20.3
(C) FIRST FINAL FLOW PRESSURE	10	20.3
(D) INITIAL CLOSED-IN PRESSURE	1211	1223.3
(E) SECOND INITIAL FLOW PRESSURE	50	71.1
(F) SECOND FINAL FLOW PRESSURE	50	71.1
(G) FINAL CLOSED-IN PRESSURE	1180	1189.5
(H) FINAL HYDROSTATIC MUD	2012	2029.2

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## Drill-Stem Test Data

Well Name WERNER #3 Test No. 2 Date 10/31/94  
Company WHITE & ELLIS DRILLING Zone MISSISSIPPI  
Address P.O. BOX 48848 WICHITA KS 67201 Elevation 1450  
Co. Rep./Geo. TOM FUNK Cont. WHITE & ELLIS #8 Est. Ft. of Pay 7  
Location: Sec. 23 Twp. 32S Rge. 10W Co. BARBER State KS

Interval Tested 4321-4374 Drill Pipe Size 4.5" XH  
Anchor Length 53 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4316 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4321 Mud Wt. 9.3 lb/Gal.  
Total Depth 4374 Viscosity 45 Filtrate 9.5

Tool Open @ 6:15PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 2 MINUTES  
GAS TO SURFACE IN 23 MINUTES  
Final Blow SEE GAS VOLUME REPORT

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of SLIGHTLY GAS CUT MUD 2%GAS/98%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 120 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud 2188.4 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 52.8 PSI @ (depth) 4324 w / Clock No. 26191

(C) First Final Flow Pressure 46.7 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 988.9 PSI @ (depth) 4371 w / Clock No. 8698

(E) Second Initial Flow Pressure 42.6 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

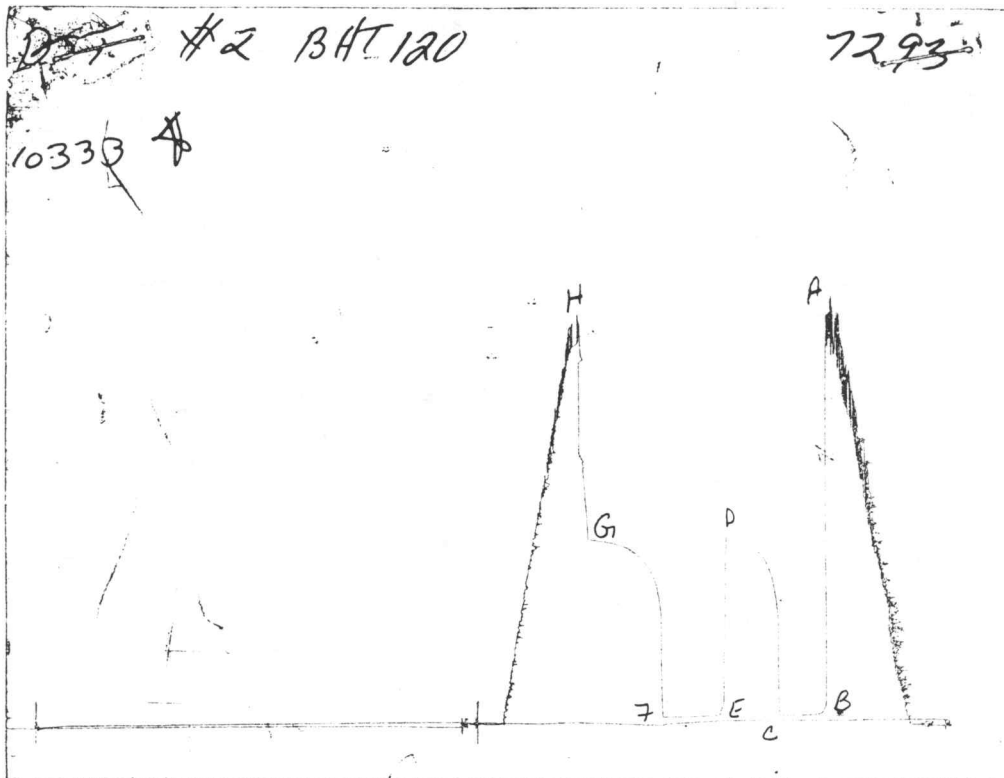
(F) Second Final Flow Pressure 34.5 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 974.6 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2174.1 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2163	2188.4
(B) FIRST INITIAL FLOW PRESSURE	30	52.8
(C) FIRST FINAL FLOW PRESSURE	30	46.7
(D) INITIAL CLOSED-IN PRESSURE	965	988.9
(E) SECOND INITIAL FLOW PRESSURE	30	42.6
(F) SECOND FINAL FLOW PRESSURE	30	34.5
(G) FINAL CLOSED-IN PRESSURE	965	974.6
(H) FINAL HYDROSTATIC MUD	2143	2174.1

# GAS VOLUME REPORT

WHITE & ELLIS DRILLING

WERNER #3

DST # 2

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
25	2	0.25	12.7	10	2	0.5	47.7
30	3.5	0.25	17.1	20	2	0.5	47.7
				30	2	0.5	47.7
				40	2	0.5	47.7
				45	2	0.5	47.7

Remarks: GAS TO SURFACE IN 23 MINUTES / GAS WILL BURN

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## Drill-Stem Test Data

Well Name WERNER #3 Test No. 3 Date 11/1/94  
Company WHITE & ELLIS DRILLING Zone MISSISSIPPI  
Address P.O. BOX 48848 WICHITA KS 67201 Elevation 1450  
Co. Rep./Geo. TOM FUNK Cont. WHITE & ELLIS #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 23 Twp. 32S Rge. 10W Co. BARBER State KS

Interval Tested 4374-4385 Drill Pipe Size 4.5" XH  
Anchor Length 11 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4369 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4374 Mud Wt. 9.3 lb/Gal.  
Total Depth 4385 Viscosity 45 Filtrate 9.5

Tool Open @ 7:35 Initial Blow STRONG BLOW - GAS TO SURFACE IN 10 MINUTES

Final Blow SEE GAS VOLUME REPORT

Recovery - Total Feet 180 Flush Tool? NO

Rec. 175 Feet of SLIGHTLY WATER CUT OIL 95%OIL/5%WATER  
Rec. 5 Feet of HVY GAS OIL MUD CUT WATER 20%GAS/30%OIL/50%H2O/10%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 \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2210.5 PSI AK1 Recorder No. 10333 Range 4050

(B) First Initial Flow Pressure 55.8 PSI @ (depth) 4377 w / Clock No. 26191

(C) First Final Flow Pressure 55.8 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 1024.5 PSI @ (depth) 4382 w / Clock No. 8698

(E) Second Initial Flow Pressure 71.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

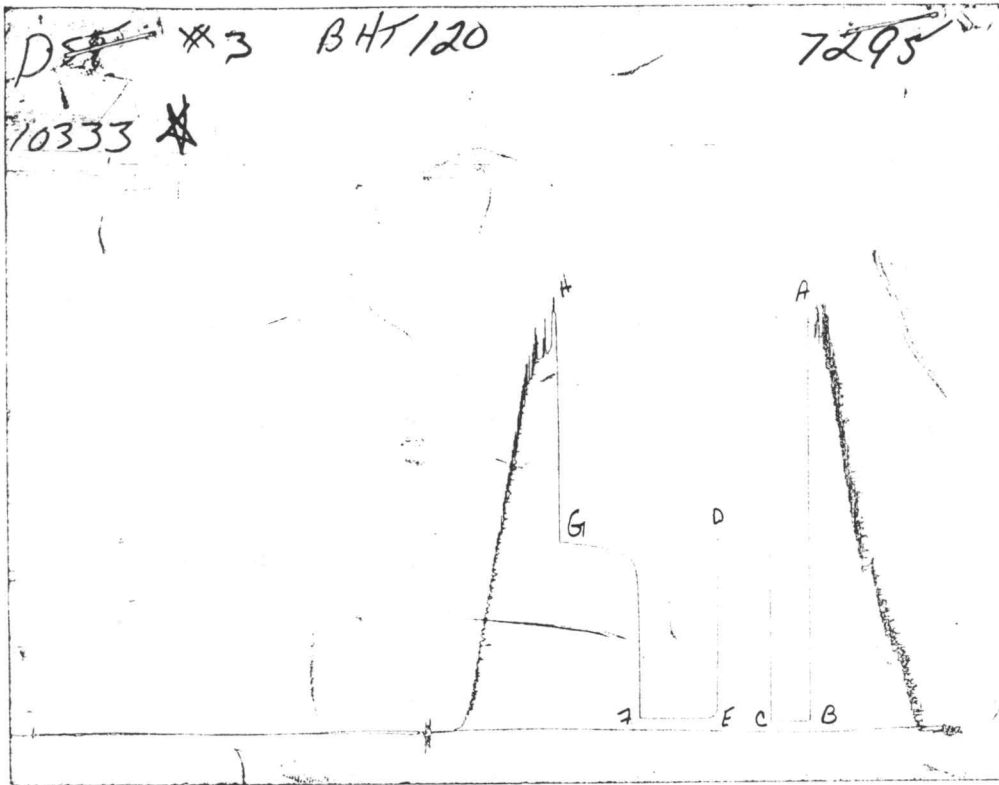
(F) Second Final Flow Pressure 71.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1006.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2207.5 PSI Initial Shut-in 45 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	2214	2210.5
(B) FIRST INITIAL FLOW PRESSURE	50	55.8
(C) FIRST FINAL FLOW PRESSURE	50	55.8
(D) INITIAL CLOSED-IN PRESSURE	1016	1024.5
(E) SECOND INITIAL FLOW PRESSURE	60	71.1
(F) SECOND FINAL FLOW PRESSURE	60	71.1
(G) FINAL CLOSED-IN PRESSURE	995	1006.2
(H) FINAL HYDROSTATIC MUD	2204	2207.5

# GAS VOLUME REPORT

WHITE & ELLIS DRILLING

WERNER #3

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
10	4.5	0.5	73.6	10	6	0.5	86.3
15	4.5	0.5	73.6	20	10	0.5	116
20	5	0.5	78.1	30	5	0.75	175
25	5.5	0.5	81.8	40	3	0.75	133
30	6	0.5	86.3	50	3	0.75	133
				60	2	0.75	108

Remarks: GAS TO SURFACE IN 10 MINUTES / GAS WILL BURN