

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name HECKER #2-9 Test No. 1 Date 2/24/93  
Company WHITE & ELLIS DRLG Zone LANSING "H"  
Address P.O. BOX 48848 WICHITA KS 67201-8848 Elevation 3128  
Co. Rep./Geo. TOM FUNK Cont. WHT & ELLIS RIG #9 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 9 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4218-4250  
Anchor Length 32  
Top Packer Depth 4213  
Bottom Packer Depth 4218  
Total Depth 4250

Drill Pipe Size 4.5 XH  
Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. 8.9 lb/Gal.  
Viscosity 45 Filtrate 10.8

Tool Open @ 4:51 PM Initial Blow WEAK BLOW - 1/2" - 1" IN WATER

Final Blow NO BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of MUD WITH OIL SPECKS / SOME CLEAN OIL @ TOP OF TOOL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 119 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 7500 ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud 2033.9 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 24.7 PSI @ (depth) 4247 w / Clock No. 22993

(C) First Final Flow Pressure 32.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 296.8 PSI @ (depth) 4242 w / Clock No. 30410

(E) Second Initial Flow Pressure 31.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

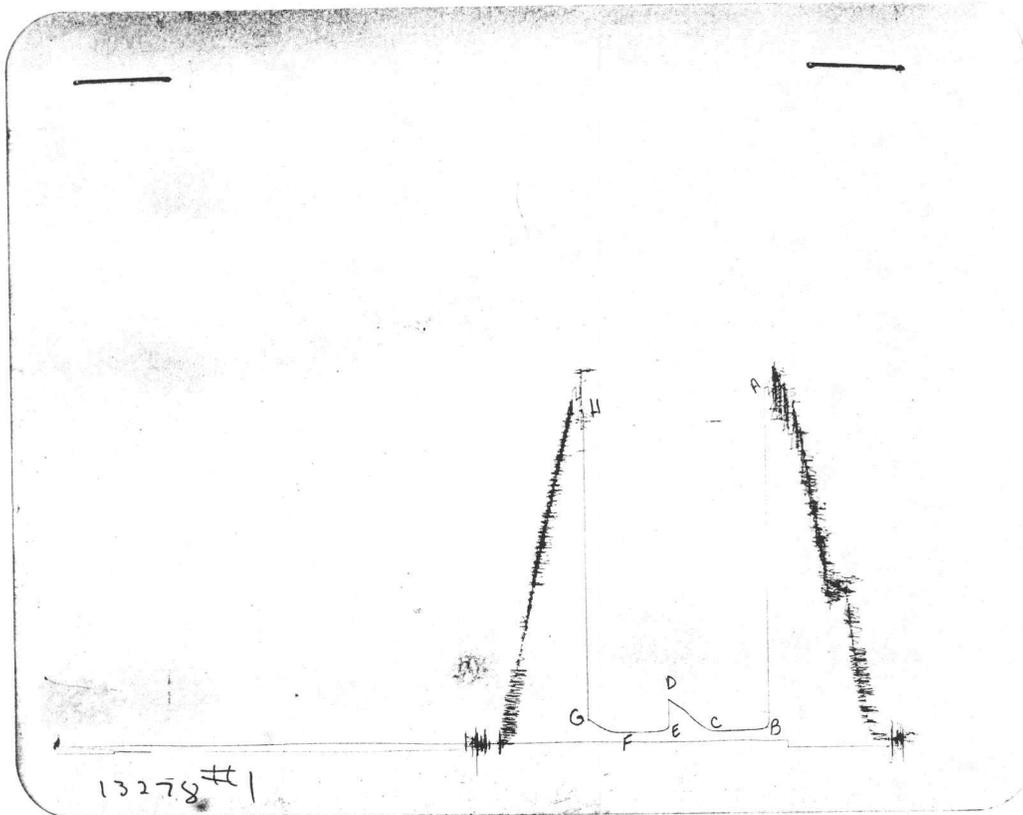
(F) Second Final Flow Pressure 31.4 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 160.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1988.7 PSI Initial Shut-in 45 Final Shut-in 30

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2023	2033.9
(B) FIRST INITIAL FLOW PRESSURE	25	24.7
(C) FIRST FINAL FLOW PRESSURE	29	32.5
(D) INITIAL CLOSED-IN PRESSURE	290	296.8
(E) SECOND INITIAL FLOW PRESSURE	29	31.4
(F) SECOND FINAL FLOW PRESSURE	29	31.4
(G) FINAL CLOSED-IN PRESSURE	157	160.4
(H) FINAL HYDROSTATIC MUD	1986	1988.7

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## Drill-Stem Test Data

Well Name HECKER #2-9 Test No. 2 Date 2/25/93  
Company WHITE & ELLIS DRLG Zone LANSING "J"  
Address P.O. BOX 48848 WICHITA KS 67201-8848 Elevation 3128  
Co. Rep./Geo. TOM FUNK Cont. WHT & ELLIS RIG #9 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 9 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4274-4295 Drill Pipe Size 4.5 XH  
Anchor Length 21 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4269 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4274 Mud Wt. 8.9 lb/Gal.  
Total Depth 4295 Viscosity 45 Filtrate 10.8

Tool Open @ 8:11 AM Initial Blow FAIR TO STRONG BLOW - BOTTOM OF BUCKET IN 10 MINUTES

Final Blow FAIR TO STRONG BLOW - BOTTOM OF BUCKET IN 22 MINUTES

Recovery - Total Feet 363 Flush Tool? NO

Rec. 40 Feet of GAS IN PIPE  
Rec. 20 Feet of CLEAN OIL  
Rec. 95 Feet of MUDDY WATER WITH OIL SPECKS- 78%WTR / 22% MUD  
Rec. 248 Feet of SALT WATER WITH OIL SPECKS-99% WTR / 1% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 120 °F Gravity 39 °API @ 63 °F Corrected Gravity 39 °API  
RW 0.41 @ 63 °F Chlorides 19000 ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud 2043.9 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 39.5 PSI @ (depth) 4292 w / Clock No. 22993

(C) First Final Flow Pressure 111.4 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 208.9 PSI @ (depth) 4287 w / Clock No. 30410

(E) Second Initial Flow Pressure 123.7 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

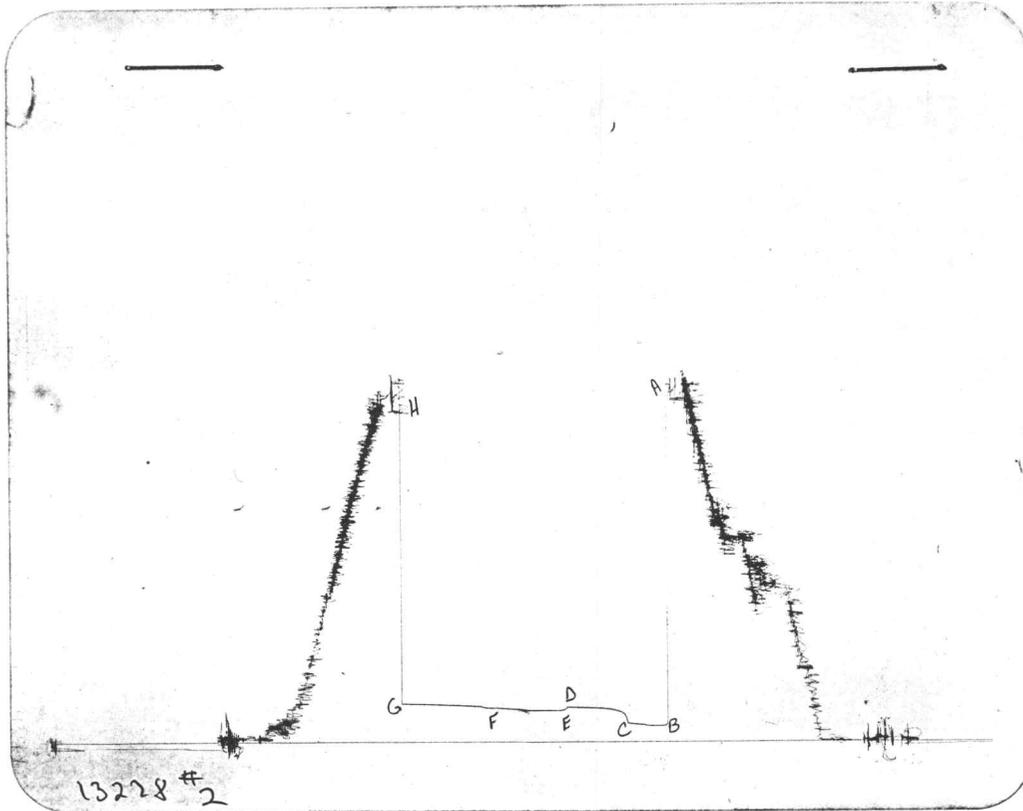
(F) Second Final Flow Pressure 177.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 204.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1966.8 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	2032	2043.9
(B) FIRST INITIAL FLOW PRESSURE	36	39.5
(C) FIRST FINAL FLOW PRESSURE	109	111.4
(D) INITIAL CLOSED-IN PRESSURE	204	208.9
(E) SECOND INITIAL FLOW PRESSURE	125	123.7
(F) SECOND FINAL FLOW PRESSURE	175	177.9
(G) FINAL CLOSED-IN PRESSURE	202	204.5
(H) FINAL HYDROSTATIC MUD	1959	1966.8

DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE			
	2						TICKET	5892		
SAMPLE #	TOTAL FEET	GAS %	OIL		WATER		MUD			
			FEET	%	FEET	%	FEET	%	FEET	
1	20	0	0	100	20	0	0	0	0	
2	95	0	0	0	0	78	74.1	22	20.9	
3	248	0	0	0	0	99	245.52	1	2.48	
4			0		0		0		0	
5			0		0		0		0	
TOTAL	363	0	0	5.51	20	88.049587	319.62	6.44	23.38	

		HRS	BBL/DAY
BBL OIL=	0.2844	*	1.5 4.5504
BBL WATER=	4.5449964	*	72.72
BBL MUD=	0.3324636		
BBL GAS	0		

