



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name HUDSON #1 Test No. 1 Date 10/23/94  
 Company CASTLE RESOURCES, INC. Zone LKC  
 Address 1200 E.27th #C HAYS KANSAS 67601 Elevation \_\_\_\_\_  
 Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS OIL OPER. RIG #8 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 22 Twp. 9S Rge. 26W Co. SHERIDAN State KS

Interval Tested 3965-3985 Drill Pipe Size 4.5 XH  
 Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 3960 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
 Bottom Packer Depth 3965 Mud Wt. 9.0 lb/Gal.  
 Total Depth 3985 Viscosity 45 Filtrate 8.4

Tool Open @ 6:39 A.M. Initial Blow SLID TOOL 4" WHEN OPENED-1" BLOW  
BUILDING TO 1 1/2  
 Final Blow NO BLOW - FLUSHED TOOL - NO BLOW AFTER SURGE

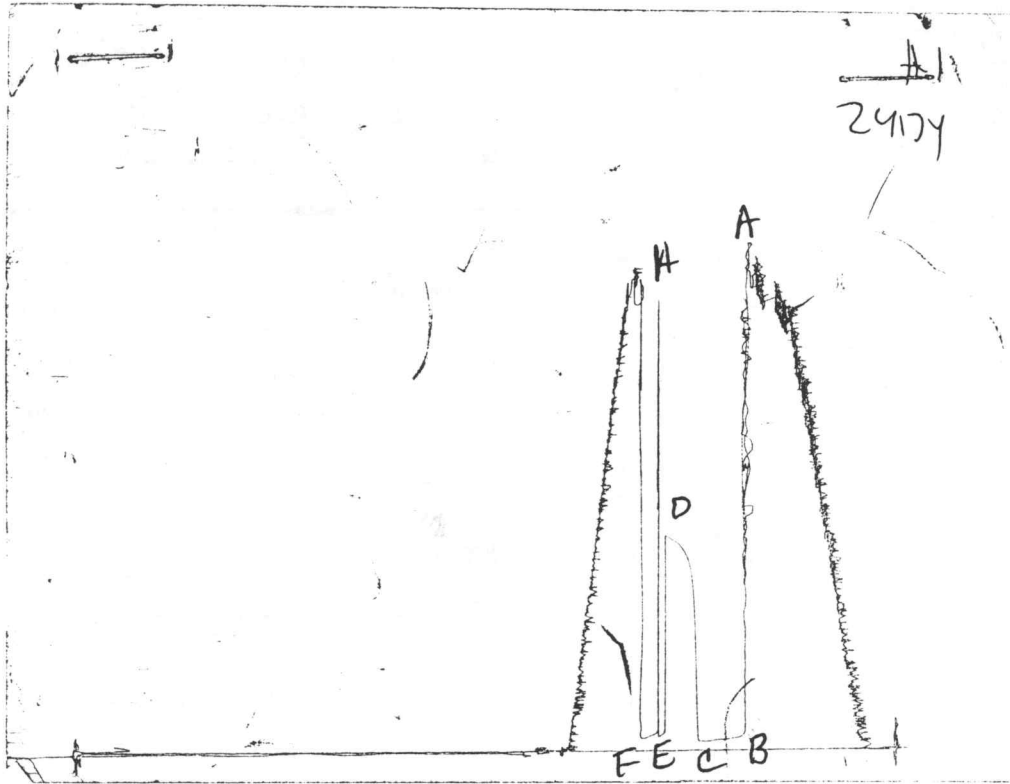
Recovery - Total Feet 30 Flush Tool? YES  
 Rec. 30 Feet of MUD  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 1910.1 PSI AK1 Recorder No. 22150 Range 3925  
 (B) First Initial Flow Pressure 43.6 PSI @ (depth) 3967 w / Clock No. 23839  
 (C) First Final Flow Pressure 34.7 PSI AK1 Recorder No. 24174 Range 3050  
 (D) Initial Shut-in Pressure 852.9 PSI @ (depth) 3979 w / Clock No. 22336  
 (E) Second Initial Flow Pressure 55.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 55.5 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
 (G) Final Shut-in Pressure 0.0 PSI Initial Opening 30 Final Flow 15  
 (H) Final Hydrostatic Mud 1863.3 PSI Initial Shut-in 30 Final Shut-in 0

Our Representative PAUL SIMPSON

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1919	1910.1
(B) FIRST INITIAL FLOW PRESSURE	37	43.6
(C) FIRST FINAL FLOW PRESSURE	37	34.7
(D) INITIAL CLOSED-IN PRESSURE	857	852.9
(E) SECOND INITIAL FLOW PRESSURE	44	55.5
(F) SECOND FINAL FLOW PRESSURE	44	55.5
(G) FINAL CLOSED-IN PRESSURE	0	0
(H) FINAL HYDROSTATIC MUD	1865	1863.3

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## Drill-Stem Test Data

Well Name HUDSON #1 Test No. 2 Date 10/23/94  
Company CASTLE RESOURCES, INC. Zone LKC 'H'  
Address 1200 E.27th #C HAYS KANSAS 67601 Elevation \_\_\_\_\_  
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS OIL OPER. RIG #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 22 Twp. 9S Rge. 26W Co. SHERIDAN State KS

Interval Tested 4040-4085 Drill Pipe Size 4.5 XH  
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4035 Drill Collar - 2.25 Ft. Run 31  
Bottom Packer Depth 4040 Mud Wt. 9.2 lb/Gal.  
Total Depth 4085 Viscosity 47 Filtrate 8.4

Tool Open @ 9:17 P.M. Initial Blow WEAK 1/4' BLOW BUILDING TO 2 1/2"

Final Blow NO BLOW

Recovery - Total Feet 71 Flush Tool? NO

Rec. 1 Feet of OIL  
Rec. 70 Feet of MUDDY SALT WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.22 @ \_\_\_\_\_ °F Chlorides 49000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1986.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 55.5 PSI @ (depth) 4048 w / Clock No. 23839

(C) First Final Flow Pressure 59.3 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1057.4 PSI @ (depth) 4078 w / Clock No. 30416

(E) Second Initial Flow Pressure 89.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

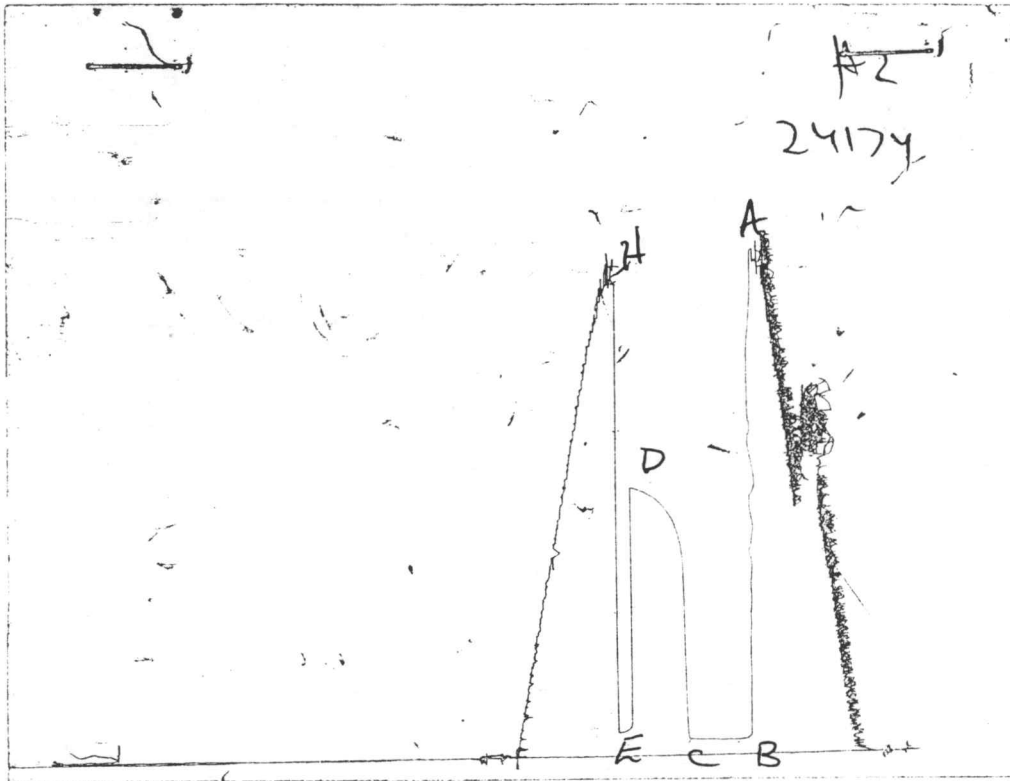
(F) Second Final Flow Pressure 0.0 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 0.0 PSI Initial Opening 45 Final Flow 10

(H) Final Hydrostatic Mud 1947.1 PSI Initial Shut-in 45 Final Shut-in 0

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1996	1986.5
(B) FIRST INITIAL FLOW PRESSURE	52	55.5
(C) FIRST FINAL FLOW PRESSURE	59	59.3
(D) INITIAL CLOSED-IN PRESSURE	1062	1057.4
(E) SECOND INITIAL FLOW PRESSURE	74	89.1
(F) SECOND FINAL FLOW PRESSURE	0	0
(G) FINAL CLOSED-IN PRESSURE	0	0
(H) FINAL HYDROSTATIC MUD	1957	1947.1

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## Drill-Stem Test Data

Well Name HUDSON #1 Test No. 3 Date 10/24/94  
Company CASTLE RESOURCES, INC. Zone LKC J-K  
Address 1200 E.27th #C HAYS KANSAS 67601 Elevation \_\_\_\_\_  
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS OIL OPER. RIG #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 22 Twp. 9S Rge. 26W Co. SHERIDAN State KS

Interval Tested 4085-4130 Drill Pipe Size 4.5 XH  
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4080 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 4085 Mud Wt. 9.2 lb/Gal.  
Total Depth 4130 Viscosity 50 Filtrate 8.8

Tool Open @ 10:15 A. <sup>Initial Blow</sup> WEAK 1/4" BLOW DECREASING TO SURFACE

Final Blow NO BLOW-FLUSHED TOOL-NO BLOW AFTER SURGE

Recovery - Total Feet 5 Flush Tool? YES

Rec. 5 Feet of MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2019.0 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 43.6 PSI @ (depth) 4092 w / Clock No. 30416

(C) First Final Flow Pressure 43.6 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 47.4 PSI @ (depth) 4122 w / Clock No. 23835

(E) Second Initial Flow Pressure 0.0 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

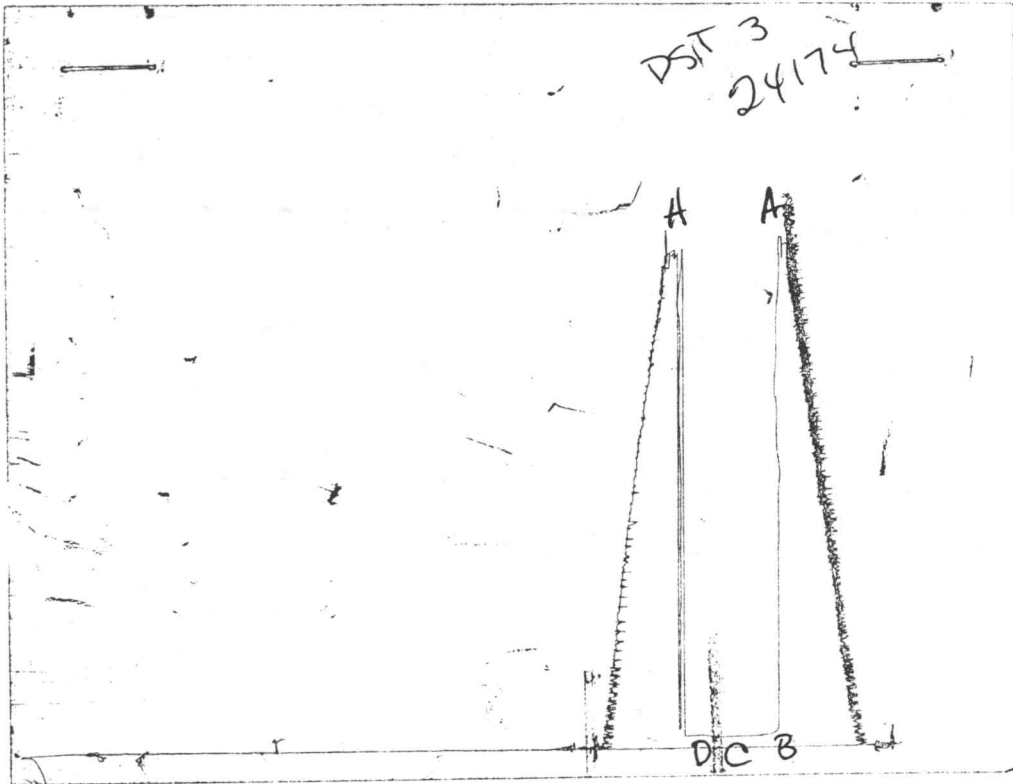
(F) Second Final Flow Pressure 0.0 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 0.0 PSI Initial Opening 30 Final Flow 15

(H) Final Hydrostatic Mud 1942.5 PSI Initial Shut-in 30 Final Shut-in 0

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CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2019	2019
(B) FIRST INITIAL FLOW PRESSURE	37	43.6
(C) FIRST FINAL FLOW PRESSURE	37	43.6
(D) INITIAL CLOSED-IN PRESSURE	44	47.4
(E) SECOND INITIAL FLOW PRESSURE	0	0
(F) SECOND FINAL FLOW PRESSURE	0	0
(G) FINAL CLOSED-IN PRESSURE	0	0
(H) FINAL HYDROSTATIC MUD	1965	1942.5