

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name SCHWARTZKOPH #1 Test No. 1 Date 9/9/93  
Company CASTLE RESOURCES, INC. Zone CHEROKEE  
Address 1200 E.27th #C HAYS KANSAS 67601 Elevation 2128  
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS RIG #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 4 Twp. 18S Rge. 20W Co. RUSH State KS

Interval Tested 4030-4080 Drill Pipe Size 4.5 XH  
Anchor Length 50 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4025 Drill Collar - 2.25 Ft. Run 145  
Bottom Packer Depth 4030 Mud Wt. 9.4 lb/Gal.  
Total Depth 4080 Viscosity 48 Filtrate 14.2

Tool Open @ 2:19 AM Initial Blow 1/2" BLOW BUILDING TO 8"

Final Blow SURFACE BLOW - BUILDING TO 2.5"

Recovery - Total Feet 250 Flush Tool? NO

Rec. 250 Feet of WATERY 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 2076.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 53.9 PSI @ (depth) 4062 w / Clock No. 30401

(C) First Final Flow Pressure 101.1 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 555.7 PSI @ (depth) 4077 w / Clock No. 27573

(E) Second Initial Flow Pressure 115.6 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

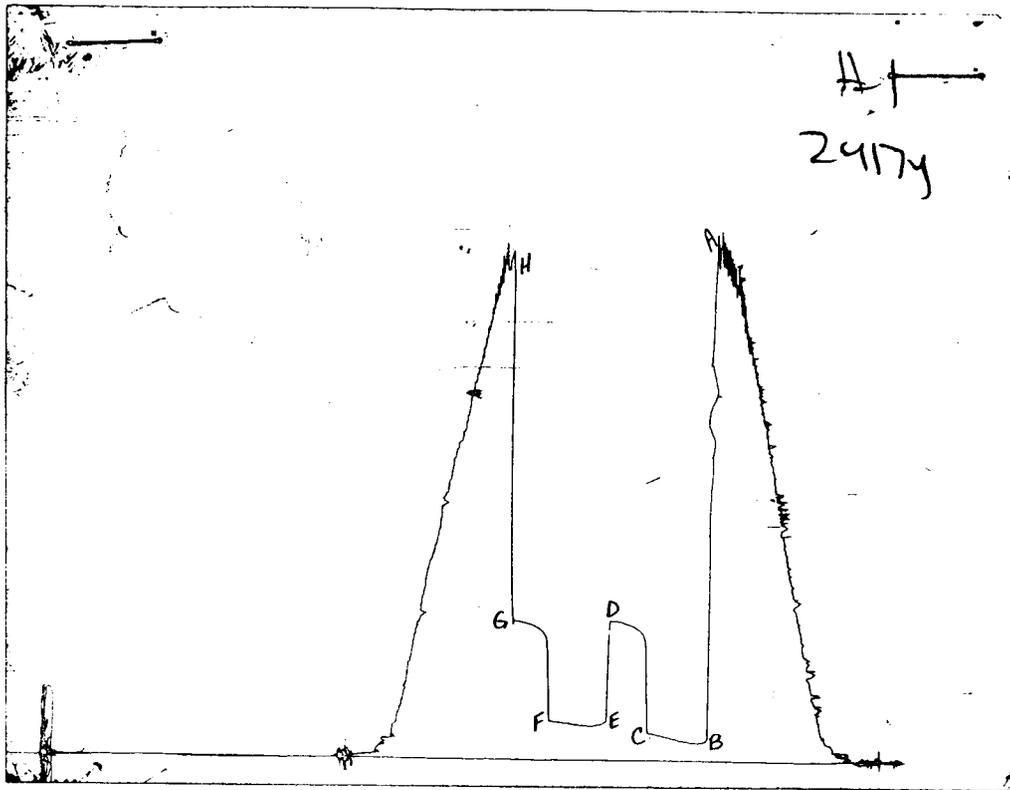
(F) Second Final Flow Pressure 144.7 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 546.9 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2010.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2089	2076.3
(B) FIRST INITIAL FLOW PRESSURE	52	53.9
(C) FIRST FINAL FLOW PRESSURE	96	101.1
(D) INITIAL CLOSED-IN PRESSURE	553	555.7
(E) SECOND INITIAL FLOW PRESSURE	112	115.6
(F) SECOND FINAL FLOW PRESSURE	142	144.7
(G) FINAL CLOSED-IN PRESSURE	542	546.9
(H) FINAL HYDROSTATIC MUD	2003	2010.4

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## Test Ticket

No 6133

Well Name & No. Schwartzkopf #1 Test No. 1 Date 9-9-83  
 Company Castle Resources, Inc Zone Tested Cherokee Sand  
 Address 1200 E 27th #C Hays KS 67601 Elevation 2128 KB  
 Co. Rep./Geo. Jerry Green cont. Emphasis #7 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 4 Twp. 18S Rge. 20W Co. Rush State \_\_\_\_\_  
 No. of Copies 5 Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4030 - 4080 Drill Pipe Size 4 1/2 XH  
 Anchor Length 50 Top Choke — 1" Bottom Choke — 3/4"  
 Top Packer Depth 4025 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 4030 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 4080 Drill Collar — 2.25 Ft. Run 145  
 Mud Wt. 9.4 lb/gal. Viscosity 48 Filtrate 14.2  
 Tool Open @ 2:19 AM Initial Blow 1/2" blow building to 8"  
 Final Blow Surface blow building to 2 1/2"

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?			
Rec.	Feet Of	% gas	% Oil	% water	% mud
<u>250</u>	<u>watery mud</u>				
_____	_____	% gas	% Oil	% water	% mud
_____	_____	% gas	% Oil	% water	% mud
_____	_____	% gas	% Oil	% water	% mud
_____	_____	% gas	% Oil	% water	% mud

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

(A) Initial Hydrostatic Mud 2089 PSI AK1 Recorder No. 22150 Range 3925  
 (B) First Initial Flow Pressure 52 PSI @ (depth) 4062 w/Clock No. 30401  
 (C) First Final Flow Pressure 96 PSI AK1 Recorder No. 24174 Range 3050  
 (D) Initial Shut-In Pressure 553 PSI @ (depth) 4077 w/Clock No. 27523  
 (E) Second Initial Flow Pressure 112 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 142 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 542 PSI Initial Opening 45 Test X 600  
 (H) Final Hydrostatic Mud 2003 PSI Initial Shut-In 30 Jars X 200

Final Flow 45 Safety Joint X 50  
 Final Shut-In 30 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 850.00

Approved By \_\_\_\_\_  
 Our Representative Ray Simpson

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