

# TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

# K C C

JUL 22 1994

## Drill-Stem Test Data

Well Name #1 DEUTSCHER Test No. 1 Date 4/11/92  
Company CASTLE RESOURCES Zone Tested ARBUCKLE  
Address 1200 E 27th BANK IV SUITE C HAYS KS Elevation 2293  
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS #6 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 6 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3986-3996 Drill Pipe Size 4.5 XH  
Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3981 Drill Collar - 2.25 Ft. Run 150  
Bottom Packer Depth 3986  
Total Depth 3996

Mud Wt. N/A lb / gal. Viscosity 52 Filtrate N/A

Tool Open @ 4:16 AM Initial Blow (HIT BRIDGE 20' & 10' FROM BOTTOM-SLID  
TOOL 4' WHEN OPENED)-BLOW BUILDING TO 3"  
Final Blow NO BLOW-FLUSHED TOOL TWICE

Recovery - Total Feet 70 Flush Tool? YES

Rec. 10 Feet of GASSY OIL CUT WATERY MUD-12%GAS/8%OIL/30%WTR/50%MUD

Rec. 60 Feet of SLTLY OIL & WTR CUT MUD-5%OIL/20%WTR/75%MUD

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW 0.281 @ 67.8 °F Chlorides 26000 ppm Recovery Chlorides N/A ppm System

(A) Initial Hydrostatic Mud 2174.8 PSI Ak1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 52.3 PSI @ (depth) \_\_\_\_\_ w/Clock No. 19960

(C) First Final Flow Pressure 63.4 PSI AK1 Recorder No. 22150 Range 3925

(D) Initial Shut-in Pressure 1199.7 PSI @ (depth) \_\_\_\_\_ w/Clock No. 17640

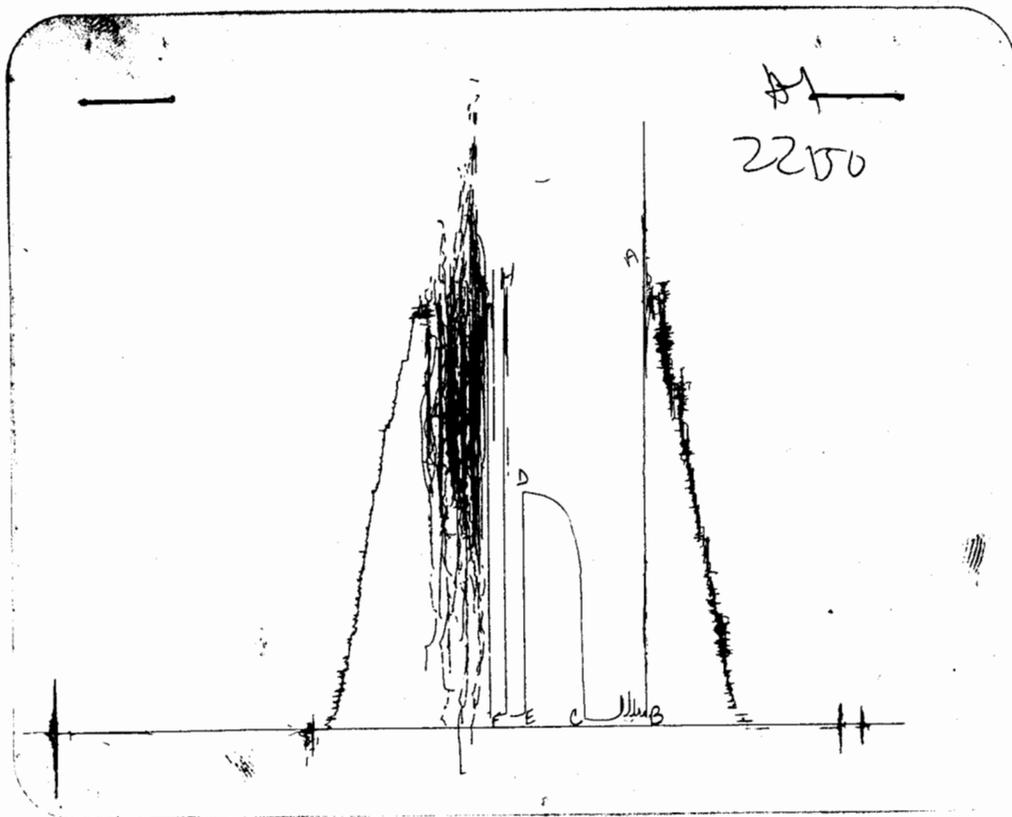
(E) Second Initial Flow Pressure 63.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 63.4 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

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

(H) Final Hydrostatic Mud 2155.7 PSI Initial Shut-in 45 Final Shut-in \_\_\_\_\_

Our Representative PAUL SIMPSON TOTAL PRICE \$ 800



POINT

This is an actual photograph of recorder chart  
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2169	2174.8
(B) FIRST INITIAL FLOW PRESSURE	49	52.3
(C) FIRST FINAL FLOW PRESSURE	59	63.4
(D) INITIAL CLOSED-IN PRESSURE	1195	1199.7
(E) SECOND INITIAL FLOW PRESSURE	59	63.4
(F) SECOND FINAL FLOW PRESSURE	59	63.4
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2150	2155.7

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## Test Ticket

No 4792

Well Name & No. #1 Deutscher Test No. 1 Date 4-11-92  
 Company Castle Resources Zone Tested Arbuckle  
 Address 1200 E. 27th Ave Hays, KS 67601 Elevation 2293  
 Co. Rep./Geo. Jerry Green cont. Emphasis #6 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 6 Twp. 13 S Rge. 21 W Co. Trego State KS  
 No. of Copies 5 Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 3986-3996 Drill Pipe Size 4 1/2 IH  
 Anchor Length 10 Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 3981 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 3986 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 3996 Drill Collar — 2.25 Ft. Run 150  
 Mud Wt. \_\_\_\_\_ lb/gal. Viscosity 52 Filtrate \_\_\_\_\_  
 Tool Open @ 4:16 AM Initial Blow hit bridge 20' & 10' from bottom slid  
tool 4' when opened) blow building to 3"  
 Final Blow no blow Flashed tool twice

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>70</u>		<u>Y</u>
Rec. <u>10</u> Feet Of <u>957 OCM</u>	<u>12</u> %gas <u>8</u> %oil <u>30</u> %water <u>50</u> %mud	
Rec. <u>60</u> Feet Of <u>508 WCM</u>	%gas <u>5</u> %oil <u>20</u> %water <u>75</u> %mud	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .281 @ 67.8 °F Chlorides 26,000 ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2169 PSI AK1 Recorder No. 13337 Range 3975  
 (B) First Initial Flow Pressure 49 PSI @ (depth) 3995 w/Clock No. 19960  
 (C) First Final Flow Pressure 59 PSI AK1 Recorder No. 22150 Range 3925  
 (D) Initial Shut-In Pressure 1195 PSI @ (depth) 3991 w/Clock No. 17640  
 (E) Second Initial Flow Pressure 59 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 59 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure \_\_\_\_\_ PSI Initial Opening 45 Test Y  
 (H) Final Hydrostatic Mud 2150 PSI Initial Shut-In 45 Jars Y

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

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

Approved By Jerry Green  
 Our Representative Paul Simpson

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Location: Sec. 6 Twp. 13S Rge. 21W Co. TREGO State KS

Interval Tested 3986-3996 Drill Pipe Size 4.5 XH  
Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3981 Drill Collar - 2.25 Ft. Run 150  
Bottom Packer Depth 3986  
Total Depth 3996

Mud Wt. N/A lb / gal. Viscosity 52 Filtrate N/A

Tool Open @ 4:16 AM Initial Blow (HIT BRIDGE 20' & 10' FROM BOTTOM-SLID  
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BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW 0.281 @ 67.8 °F Chlorides 26000 ppm Recovery Chlorides N/A ppm System

(A) Initial Hydrostatic Mud 2174.8 PSI Ak1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 52.3 PSI @ (depth) \_\_\_\_\_ w/Clock No. 19960

(C) First Final Flow Pressure 63.4 PSI Ak1 Recorder No. 22150 Range 3925

(D) Initial Shut-in Pressure 1199.7 PSI @ (depth) \_\_\_\_\_ w/Clock No. 17640

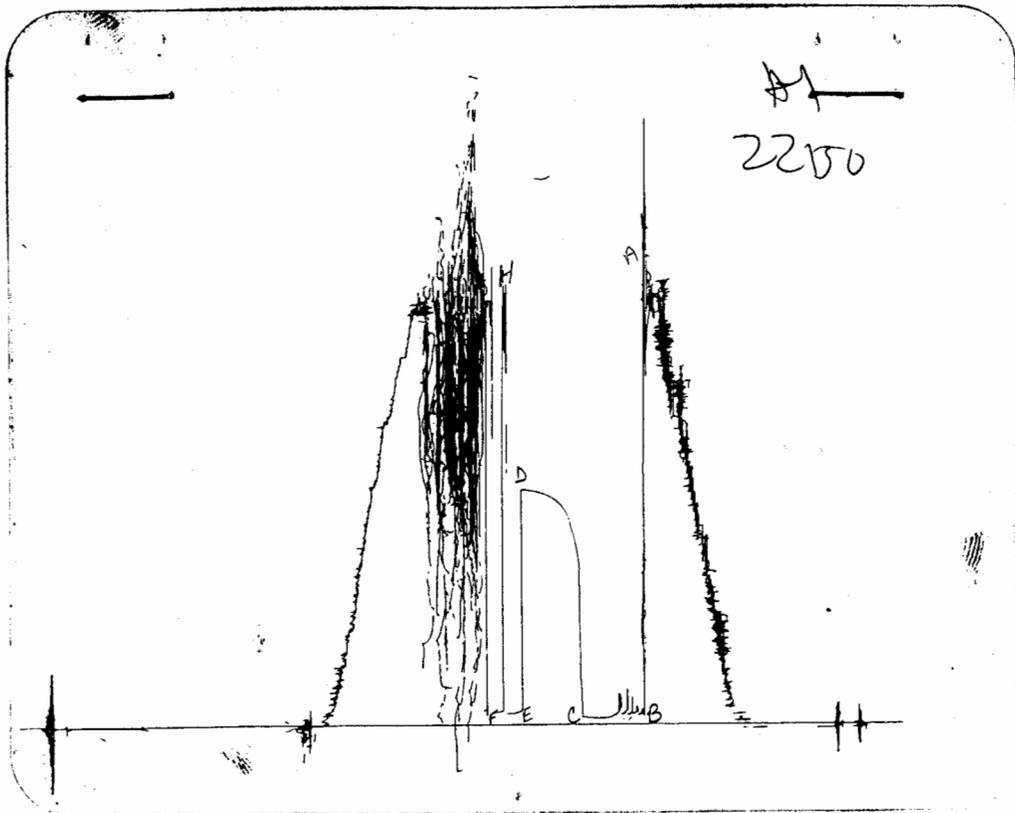
(E) Second Initial Flow Pressure 63.4 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 63.4 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

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

(H) Final Hydrostatic Mud 2155.7 PSI Initial Shut-in 45 Final Shut-in \_\_\_\_\_

Our Representative PAUL SIMPSON TOTAL PRICE \$ 800



POINT

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(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2150	2155.7

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Tool Open @ 4:16 AM Initial Blow hit bridge 20' & 10' from bottom slid  
tool 4' when opened) blow building to 3"  
Final Blow no blow flushed tool twice

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>10</u> Feet Of <u>gsy OCWM</u> <u>12</u> %gas <u>8</u> %oil <u>30</u> %water <u>56</u> %mud		<input checked="" type="checkbox"/>
Rec. <u>60</u> Feet Of <u>SD &amp; WCM</u> %gas <u>5</u> %oil <u>20</u> %water <u>75</u> %mud		
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud		
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud		
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud		

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW .281 @ 67.8 °F Chlorides 26,000 ppm Recovery Chlorides \_\_\_\_\_ ppm System  
(A) Initial Hydrostatic Mud 269 PSI Ak1 Recorder No. 13337 Range 3975  
(B) First Initial Flow Pressure 49 PSI @ (depth) 3995 w/Clock No. 19960  
(C) First Final Flow Pressure 59 PSI AK1 Recorder No. 22150 Range 3925  
(D) Initial Shut-In Pressure 1195 PSI @ (depth) 3991 w/Clock No. 17640  
(E) Second Initial Flow Pressure 59 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 59 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure \_\_\_\_\_ PSI Initial Opening 45 Test   
(H) Final Hydrostatic Mud 2150 PSI Initial Shut-In 45 Jars

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Approved By Jerry Green Final Flow 30 Safety Joint   
Our Representative Paul Simpson Final Shut-In \_\_\_\_\_ Straddle \_\_\_\_\_  
Printcraft Printers - Hays, KS \_\_\_\_\_ Circ. Sub \_\_\_\_\_  
\_\_\_\_\_ Sampler \_\_\_\_\_  
\_\_\_\_\_ Extra Packer \_\_\_\_\_  
\_\_\_\_\_ Other \_\_\_\_\_  
TOTAL PRICE \$ Y