

**WELL NAME:** Zenith Unit # 44  
**COMPANY:** Castle Resources Inc.  
**LOCATION:** 1-24-11W  
Stafford County Kansas  
**DATE:** 11/13/97

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources Inc  
 WELL NAME: Zenith Unit # 44  
 LOCATION : 1-24-11W Stafford Co KS  
 INTERVAL : 3642.00 To 3702.00 ft

DATE 11/10/97  
 KB 1808.00 ft TICKET NO: 10087 DST #1  
 GR 1800.00 ft FORMATION: Misner  
 TD 3702.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	10332	10332	13849			PF Fr. 1354 to 1439 hr
SI 45 Range(Psi )	4025.0	4025.0	4375.0	0.0	0.0	IS Fr. 1439 to 1524 hr
SF 45 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 1524 to 1609 hr
FS 45 Depth(ft )	3674.0	3674.0	3699.0	0.0	0.0	FS Fr. 1609 to 1654 hr

	Field	1	2	3	4	
A. Init Hydro	1916.0	1875.0	0.0	0.0	0.0	T STARTED 1230 hr
B. First Flow	71.0	70.0	0.0	0.0	0.0	T ON BOTM 1330 hr
B1. Final Flow	101.0	118.0	0.0	0.0	0.0	T OPEN 1354 hr
C. In Shut-in	648.0	649.0	0.0	0.0	0.0	T PULLED 1654 hr
D. Init Flow	132.0	141.0	0.0	0.0	0.0	T OUT 1900 hr
E. Final Flow	172.0	177.0	0.0	0.0	0.0	
F. Fl Shut-in	638.0	632.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1671.0	1719.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 68000.00 lbs
						Initial Str Wt 37000.00 lbs
						Unseated Str Wt 38000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3631.00 ft

RECOVERY

Tot Fluid 491.00 ft of 30.00 ft in DC and 461.00 ft in DP  
 100.00 ft of Gassy Watery Mud with trace Oil  
 0.00 ft of 8%gas 10%water 82%mud  
 200.00 ft of Gassy Watery Mud with trace Oil  
 0.00 ft of 6%gas 14%water 80%mud  
 100.00 ft of Gassy Watery Mud  
 0.00 ft of 20%gas 20%water 60%mud  
 91.00 ft of Gassy Muddy Water  
 0.00 ft of 4%gas 30%mud 66%water  
 SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Fair blow, built to bottom of bucket  
 in 32 minutes  
 Initial Shut In:  
 Bled down for 10 minutes, built back  
 to no blow  
 Final Flow:  
 Fair blow, built to bottom of bucket  
 in 42 minutes  
 Final Shut In:  
 Bled down for 10 minutes, very slight  
 blow back

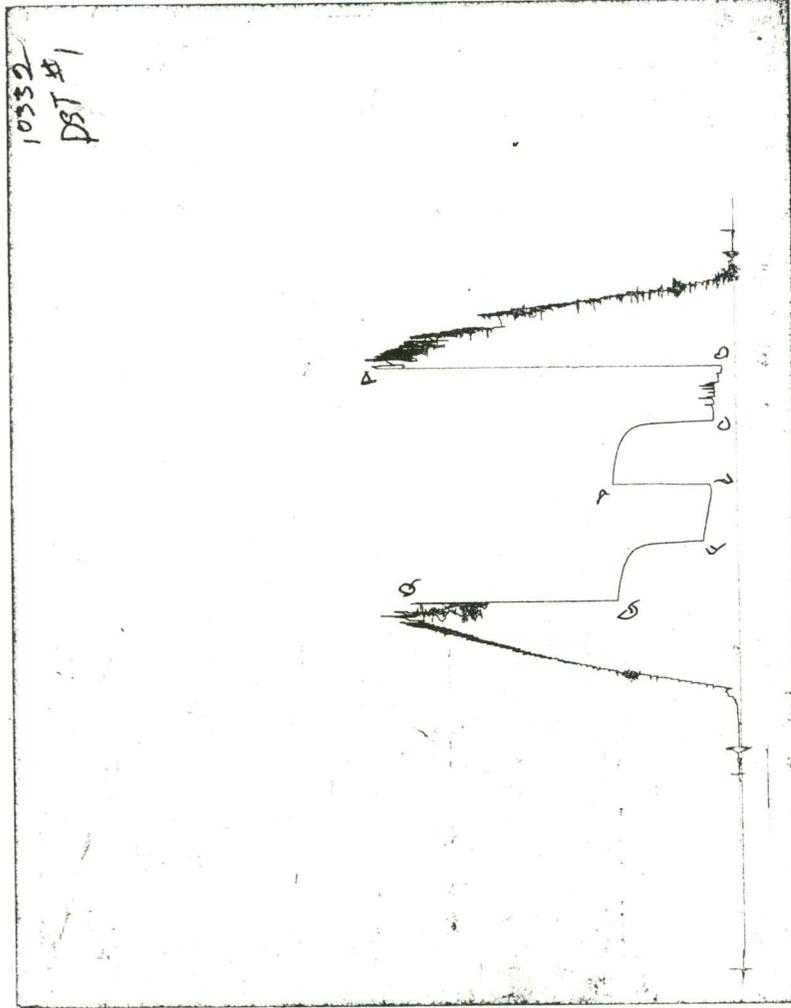
RW .09 @ 68 F

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 45.00 S/L  
 W.L. 10.40 in3  
 F.C. 0.00 in  
 Mud Drop  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 138.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Darren Amerine  
 Co. Rep. Jerry Green  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

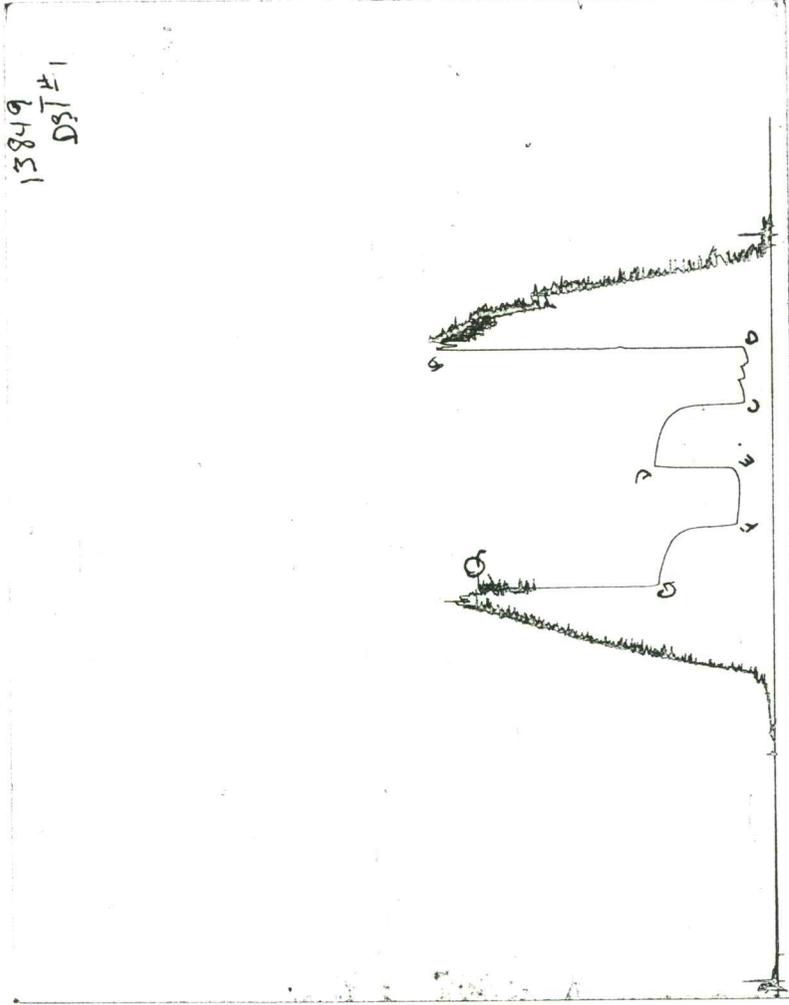
Test Successful: Y

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

N<sup>o</sup> 10087

Well Name & No. Zenith Unit #44 Test No. #1 Date 11/10/97  
Company Castle Res Inc. Zone Tested Wisher  
Address Box 87 Schoenechen, KS 67667 Elevation 1808 KB 1800 GL  
Co. Rep / Geo. Jerry Green Cont. Discovery #1 Est. Ft. of Pay      Por.      %  
Location: Sec. 1 Twp. 24S Rge. 11W Co. Starford State KS  
No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3642 - 3702 Initial Str Wt./Lbs. 32,000 Unseated Str Wt./Lbs. 38,000  
Anchor Length 60' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 68,000  
Top Packer Depth 3637' Tool Weight 2100  
Bottom Packer Depth 3642 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
Total Depth 3702 Wt. Pipe Run      Drill Collar Run 30'  
Mud Wt. 9.1 LCM 10# Vis. 45 WL 10.4 Drill Pipe Size 4 1/2 X 4 Ft. Run 3631'  
Blow Description TF: Fair blow. Built to Bob in 32 mins.  
IST: Bled down for 10 mins. Built back to Bob  
FF: Fair blow. Built to Bob in 42 mins.  
FST: Bled down for 10 mins. Very slight b.d.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>100'</u> Feet Of <u>VSOCGM Traceoil 6</u>	<u>6</u> %gas	<u>10</u> %oil	<u>82</u> %mud
Rec. <u>200'</u> Feet Of <u>VSOCBM</u>	<u>5</u> %gas	<u>14</u> %oil	<u>80</u> %mud
Rec. <u>100'</u> Feet Of <u>    </u>	<u>20</u> %gas	<u>80</u> %oil	<u>56</u> %mud
Rec. <u>91'</u> Feet Of <u>30CWM</u>	<u>4</u> %gas	<u>66</u> %oil	<u>30</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil	<u>    </u> %mud

BHT 138° °F Gravity      °API D@      °F Corrected Gravity      °API  
RW .09 @ 68° °F Chlorides 8000 ppm Recovery Chlorides 13,000 ppm System

(A) Initial Hydrostatic Mud 1916 PSI Recorder No. 10332 T-Started 12:30  
(B) First Initial Flow Pressure 71 PSI (depth) 3674' T-Open 1:54 PM  
(C) First Final Flow Pressure 101 PSI Recorder No. 13849 T-Pulled 4:54  
(D) Initial Shut-in Pressure 648 PSI (depth) 3699' T-Out 7:00  
(E) Second Initial Flow Pressure 132 PSI Recorder No.       
(F) Second Final Flow Pressure 172 PSI (depth)       
(G) Final Shut-in Pressure 638 PSI Initial Opening 75 Test  600  
(H) Final Hydrostatic Mud 1671 PSI Initial Shut-in 45 Jars  200  
Final Flow 75 Safety Joint  50  
Final Shut-in 75 Straddle       
Circ. Sub       
Sampler       
Extra Packer       
Elect. Rec.       
Other     

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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.

Approved By [Signature]  
Our Representative Darren [Signature]

TOTAL PRICE \$ 850