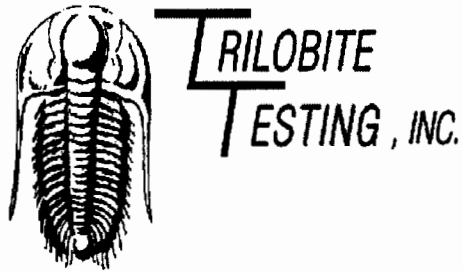


RECEIVED ORIGINAL  
AUG 09 2002  
KCC WICHITA



## DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc.**

P.O.Box 87  
Schoenchen, KS 67667

ATTN: Jeery Green

**30-16s-19w**

**Schneider #1**


Start Date: 2002.04.27 @ 23:42:20

End Date: 2002.04.28 @ 07:57:20

Job Ticket #: 15805      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

# ORIGINAL

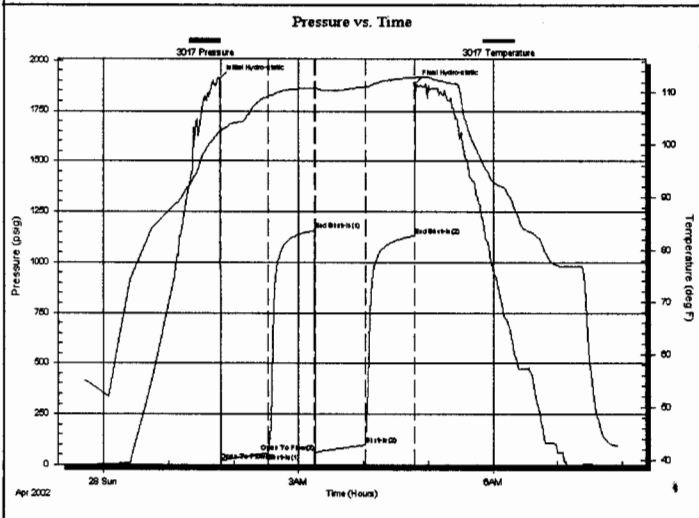
 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	Castle Resources Inc. P.O.Box 87 Schoenchen, KS 67667 ATTN: Jeery Green	<b>Schneider #1</b> <b>30-16s-19w</b> Job Ticket: 15805      DST#: 1 Test Start: 2002.04.27 @ 23:42:20

**GENERAL INFORMATION:**

Formation: <b>Arbuckle</b>	Test Type: Conventional Bottom Hole
Deviated: No    Whipstock:                      ft (KB)	Tester: John Schmidt
Time Tool Opened: 01:47:50	Unit No: 18
Time Test Ended: 07:57:20	Reference Elevations: 2081.00 ft (KB)
Interval: <b>3800.00 ft (KB) To 3856.00 ft (KB) (TVD)</b>	2076.00 ft (CF)
Total Depth: 3856.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

<b>Serial #: 3017</b>	<b>Inside</b>		
Press@RunDepth: 98.14 psig @ 3802.01 ft (KB)	Capacity: 7000.00 psig		
Start Date: 2002.04.27	End Date: 2002.04.28	Last Calib.: 2002.04.28	
Start Time: 23:42:21	End Time: 07:57:20	Time On Btm: 2002.04.28 @ 01:47:20	
		Time Off Btm: 2002.04.28 @ 04:47:50	

**TEST COMMENT:** IF-Weak Built to 3" in      ISI-no blow  
 FF-Weak Built to 2" in                      FSI-no blow



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.42	102.49	Initial Hydro-static
1	18.65	102.65	Open To Flow (1)
44	57.99	109.29	Shut-In(1)
87	1158.86	110.85	End Shut-In(1)
88	62.35	110.88	Open To Flow (2)
134	98.14	111.12	Shut-In(2)
180	1132.85	112.91	End Shut-In(2)
181	1885.43	112.90	Final Hydro-static

Length (ft)	Description	Volume (bbl)
40.00	65%M--25%O--10%G- HOCM	0.28
150.00	50%M--40%O--10%G-HOCM	1.06
60.00	GIP	0.42

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castle Resources Inc.

**Schneider #1**

P.O.Box 87  
Schoenchen, KS 67667

**30-16s-19w**

Job Ticket: 15805

**DST#: 1**

ATTN: Jeery Green

Test Start: 2002.04.27 @ 23:42:20

### Tool Information

Drill Pipe:	Length: 3144.00 ft	Diameter: 3.80 inches	Volume: 44.10 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 650.00 ft	Diameter: 2.70 inches	Volume: 4.60 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3800.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.02 ft			
Tool Length:	45.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3781.00	
S.I. Tool	5.00			3786.00	
HMV	5.00			3791.00	
Packer	4.00			3795.00	20.00 Bottom Of Top Packer
Packer	5.00			3800.00	
Stubb	1.00			3801.00	
Perforations	1.00			3802.00	
Recorder	0.01	3017	Inside	3802.01	
Perforations	20.00			3822.01	
Recorder	0.01	13308	Outside	3822.02	
Bullnose	3.00			3825.02	25.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>45.02</b>			



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

### FLUID SUMMARY

Castle Resources Inc.  
P.O.Box 87  
Schoenchen, KS 67667  
ATTN: Jeery Green

**Schneider #1**  
**30-16s-19w**  
Job Ticket: 15805      **DST#: 1**  
Test Start: 2002.04.27 @ 23:42:20

#### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	65%M--25%O--10%G- HOCM	0.283
150.00	50%M--40%O--10%G-HOCM	1.062
60.00	GIP	0.425

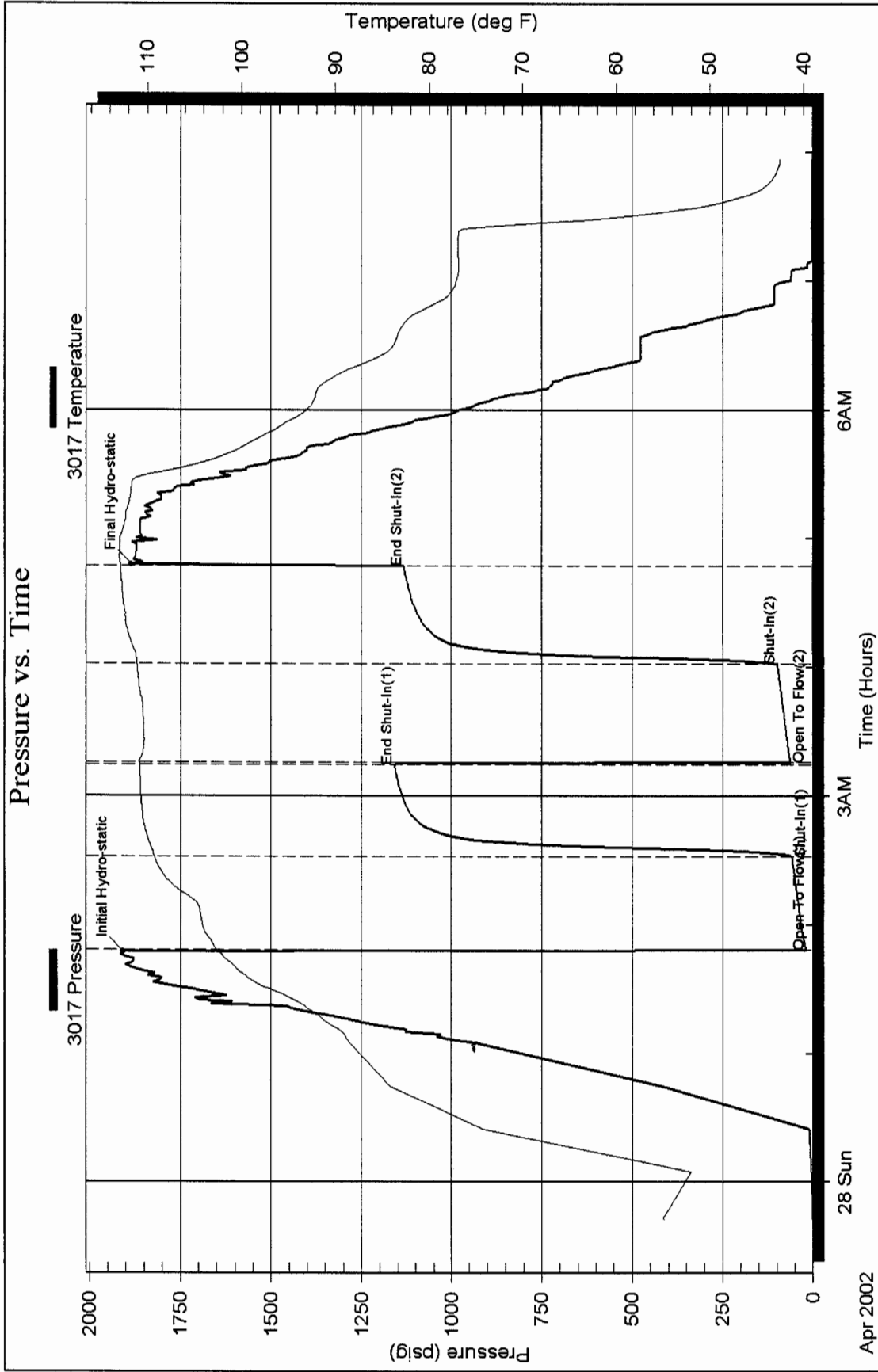
Total Length: 250.00 ft      Total Volume: 1.770 bbl

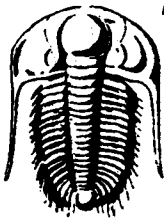
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

# Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15805

## Test Ticket

Well Name & No. SCHNEIDER #1 Test No. #1 Date 4-27-02  
 Company CASTLE RESOURCES INC. Zone Tested ARBUCKLE  
 Address PO, BOX 87 SCHOENCHEN, KS 67667 Elevation 2081 KB 2076 GL  
 Co. Rep/Geo. JERRY GREEN Cont. ANDERSON #1 Est. Ft. of Pay      Por.      %  
 Location: Sec. 30 Twp. 16 S Rge. 19 W Co. RUSH State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3800 To 3856 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 46,000  
 Anchor Length 56' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 3795 Tool Weight 3,000  
 Bottom Packer Depth 3800 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 3856 Wt. Pipe Run 650 Drill Collar Run 0  
 Mud Wt. 9.5 LCM 4 Vis. 50 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3144  
 Blow Description FF - WEAK BUILT TO 3" IN  
ISI - NO BLOW FF - WEAK BUILT TO 2" IN  
FST - NO BLOW

Recovery — Total Feet 190' GIP 60' Ft. in DC 0 Ft. in <sup>WR</sup>DP 190'  
 Rec. 150 Feet Of HOCM 10 %gas 40 %oil - %water 50 %mud  
 Rec. 40 Feet Of HOCM 10 %gas 25 %oil - %water 65 %mud  
 Rec.      Feet Of      %gas      %oil      %water      %mud  
 Rec.      Feet Of      %gas      %oil      %water      %mud  
 Rec.      Feet Of      %gas      %oil      %water      %mud  
 BHT 112 °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides      ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1921</u>		<u>3017</u>	<u>21:00</u> 10.57
(B) First Initial Flow Pressure		<u>18</u>	PSI	(depth) <u>3802</u>	T-Started <u>23:42</u>
(C) First Final Flow Pressure		<u>57</u>	PSI	Recorder No. <u>13308</u>	T-Open <u>04:42</u> 01:45
(D) Initial Shut-In Pressure		<u>1158</u>	PSI	(depth) <u>3853</u>	T-Pulled <u>04:49</u>
(E) Second Initial Flow Pressure		<u>60</u>	PSI	Recorder No. <u>    </u>	T-Out <u>07:57</u>
(F) Second Final Flow Pressure		<u>98</u>	PSI	(depth) <u>    </u>	T-Off Location <u>09:00</u>
(G) Final Shut-in Pressure		<u>1132</u>	PSI	Initial Opening <u>45</u>	Test <u>BOTTOM HOLE</u> 700
(Q) Final Hydrostatic Mud		<u>1896</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>    </u>
				Final Flow <u>45</u>	Safety Joint <u>    </u>
				Final Shut-in <u>45</u>	Straddle <u>    </u>
					Circ. Sub <u>    </u>
					Sampler <u>    </u>
					Extra Packer <u>    </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
					Mileage <u>25</u>
					Other <u>3 hrs</u> <u>90</u>
					TOTAL PRICE \$ <u>965</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSON OF THE ONE FOR WHOM A DIRECTLY 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 [Signature]

# CHART PAGE

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

