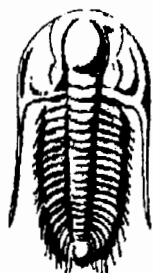


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KANSAS CORPORATION COMMISSION

JUL 15 2005

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc.**

P.O. box 87  
Schoenchen, Ks. 67667

ATTN: Jerry Green

**27-16s-20w**

**Kirsten # 1**

Start Date: 2005.01.13 @ 06:03:44

End Date: 2005.01.13 @ 13:59:14

Job Ticket #: 20924

DST #: 1

15-165-21773-00-00

NW SW NW NE

810 FNL 130 FWL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Castle Resources Inc.

Kirsten # 1

27-16s-20w

DST # 1

Arbuckle

2005.01.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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P.O. box 87  
Schoenchen, Ks. 67667  
ATTN: Jerry Green

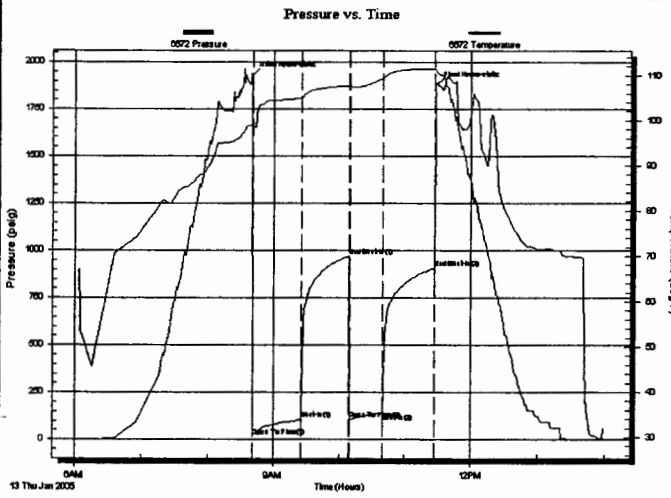
**Kirsten # 1**  
**27-16s-20w**  
Job Ticket: 20924      **DST#: 1**  
Test Start: 2005.01.13 @ 06:03:44

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 08:41:14  
Time Test Ended: 13:59:14  
Interval: **3890.00 ft (KB) To 3929.00 ft (KB) (TVD)**  
Total Depth: **3929.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **John Schmidt**  
Unit No: **31**  
Reference Elevations: **2085.00 ft (KB)**  
**2080.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6672**      **Inside**  
Press@RunDepth: **140.70 psig @ 3893.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.01.13**      End Date: **2005.01.13**      Last Calib.: **2005.01.13**  
Start Time: **06:03:45**      End Time: **13:59:14**      Time On Btm: **2005.01.13 @ 08:40:44**  
Time Off Btm: **2005.01.13 @ 11:28:44**

TEST COMMENT: IF-Good B.O.B. 15 min.      ISI-Weak blow back 1" in.  
FF-Good B.O.B. 15 min.      FSI-Fair blow back 2" in.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.61	99.07	Initial Hydro-static
1	16.93	98.78	Open To Flow (1)
44	107.40	104.91	Shut-In(1)
88	970.56	107.72	End Shut-In(1)
89	109.41	107.53	Open To Flow (2)
119	140.70	109.32	Shut-In(2)
167	907.19	111.47	End Shut-In(2)
168	1879.51	111.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
119.00	MCO-45%M-55%oil	0.59
236.00	Gassy oil-10%G-90%oil	3.31

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Castle Resources Inc.

**Kirsten # 1**

P.O. box 87  
Schoenchen, Ks. 67667

**27-16s-20w**

Job Ticket: 20924

DST#: 1

ATTN: Jerry Green

Test Start: 2005.01.13 @ 06:03:44

**Tool Information**

Drill Pipe:	Length: 3781.00 ft	Diameter: 3.80 inches	Volume: 53.04 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 53.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3890.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3871.00	
Shut In Tool	5.00			3876.00	
Hydraulic tool	5.00			3881.00	
Packer	4.00			3885.00	20.00 Bottom Of Top Packer
Packer	5.00			3890.00	
Stubb	1.00			3891.00	
Perforations	1.00			3892.00	
Change Over Sub	1.00			3893.00	
Recorder	0.00	6672	Inside	3893.00	
Blank Spacing	30.00			3923.00	
Change Over Sub	1.00			3924.00	
Perforations	2.00			3926.00	
Recorder	0.00	13308	Outside	3926.00	
Bullnose	3.00			3929.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Castle Resources Inc.  
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ATTN: Jerry Green

**Kirsten # 1**  
**27-16s-20w**  
Job Ticket: 20924      **DST#: 1**  
Test Start: 2005.01.13 @ 06:03:44

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 42 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.38 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
119.00	MCO-45%M--55%oil	0.585
236.00	Gassy oil-10%G--90%oil	3.310

Total Length: 355.00 ft      Total Volume: 3.895 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

DST Test Number: 1

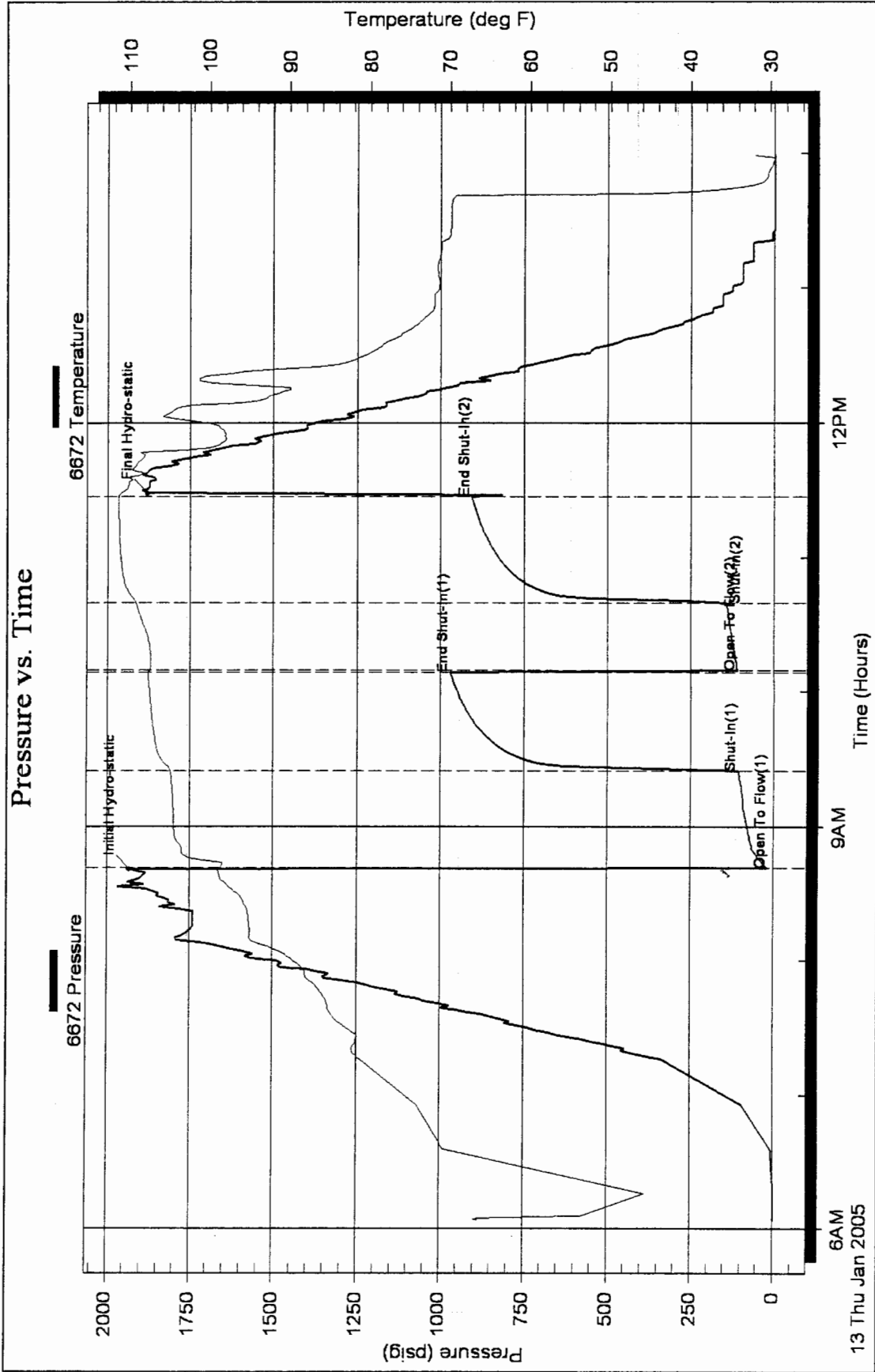
27--16s--20w

Castle Resources Inc.

Inside

Serial #: 6672

### Pressure vs. Time



Ref. No: 20924

Trilobite Testing, Inc