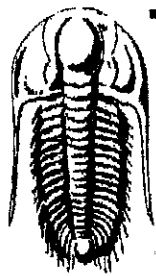


KGS ✓



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Castle Resources**  
PO Box 87  
Schoenchen, KS 67667

ATTN: Jerry Green

~~19~~ **14 14 21 Trego KS**

**Robert E #1**

Start Date: 2008.10.02 @ 14:55:56  
End Date: 2008.10.02 @ 21:33:56  
Job Ticket #: 33692                      DST #: 1

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Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Castle Resources

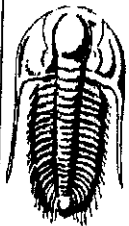
Robert E #1

~~19~~ 14 14 21 Trego KS

DST # 1

Cherokee Sand

2008.10.02



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Castle Resources  
 PO Box 87  
 Schoenchen, KS 67667  
 ATTN: Jerry Green

**Robert E #1**  
**14 14 21 Trego KS**  
 Job Ticket: 33692      **DST#: 1**  
 Test Start: 2008.10.02 @ 14:55:56

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 16:43:56  
 Time Test Ended: 21:33:56  
 Interval: **4059.00 ft (KB) To 4082.00 ft (KB) (TVD)**  
 Total Depth: 4198.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Straddle  
 Tester: Brett Dickinson  
 Unit No: #38  
 Reference Elevations: 2217.00 ft (KB)  
    2212.00 ft (CF)  
 KB to GR/CF: 5.00 ft

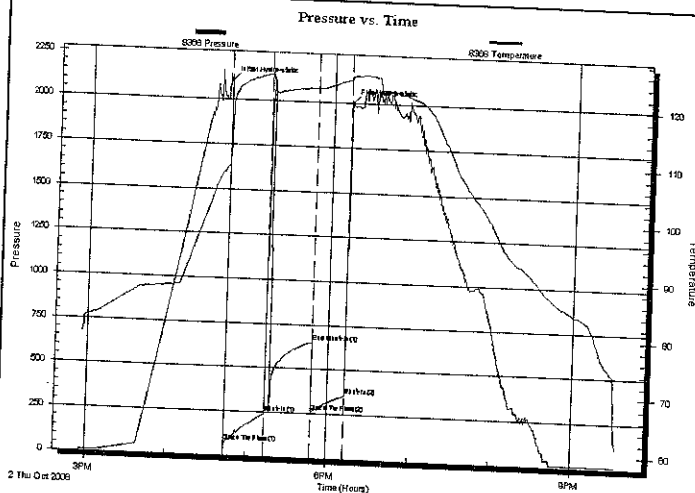
## Serial #: 8368

Outside

Press@RunDepth: 245.40 psig @ 4060.00 ft (KB)  
 Start Date: 2008.10.02      End Date:  
 Start Time: 14:55:57      End Time:

Capacity: 7000.00 psig  
 Last Calib.: 2008.10.02  
 Time On Btm: 2008.10.02 @ 16:43:41  
 Time Off Btm: 2008.10.02 @ 18:13:11

TEST COMMENT: IF- BOB in 4min  
 ISI- No blow  
 FF- BOB 12min



## PRESSURE SUMMARY

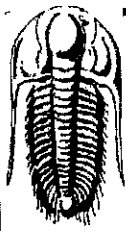
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.07	108.93	Initial Hydro-static
1	77.15	108.10	Open To Flow (1)
30	245.40	124.72	Shut-In(1)
64	650.79	122.58	End Shut-In(1)
65	261.83	122.36	Open To Flow (2)
89	356.68	124.16	Shut-In(2)
90	2003.55	124.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 30%M 70%W	2.52
600.00	MCW 20%M 80%W	8.42
70.00	Mud	0.98

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Castle Resources  
 PO Box 87  
 Schoenchen, KS 67667  
 ATTN: Jerry Green

**Robert E #1**  
**14 14 21 Trego KS**  
 Job Ticket: 33692      **DST#: 1**  
 Test Start: 2008.10.02 @ 14:55:56

**Tool Information**

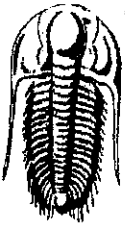
Drill Pipe:	Length: 4063.00 ft	Diameter: 3.80 inches	Volume: 56.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<b>Total Volume: 56.99 bbl</b>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	4059.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	4082.00 ft			
Interval between Packers:	23.00 ft			
Tool Length:	158.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

**Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Change Over Sub	1.00			4044.00	
Shut In Tool	5.00			4049.00	
Hydraulic tool	5.00			4054.00	
Packer	5.00			4059.00	16.00      Bottom Of Top Packer
Stubb	1.00			4060.00	
Recorder	0.00	8368	Outside	4060.00	
Perforations	6.00			4066.00	
Perforations	15.00			4081.00	
Blank Off Sub	1.00			4082.00	
Packer	5.00			4087.00	23.00      Tool Interval
Packer	5.00			4092.00	
Perforations	10.00			4102.00	
Recorder	0.00	8372	Inside	4102.00	
Change Over Sub	1.00			4103.00	
Blank Spacing	94.00			4197.00	
Change Over Sub	1.00			4198.00	
Bullnose	3.00			4201.00	119.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>158.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Castle Resources  
 PO Box 87  
 Schoenchen, KS 67667  
 ATTN: Jerry Green

**Robert E #1**  
**14 14 21 Trego KS**  
 Job Ticket: 33692      **DST#: 1**  
 Test Start: 2008.10.02 @ 14:55:56

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 20000 ppm	
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: inches			

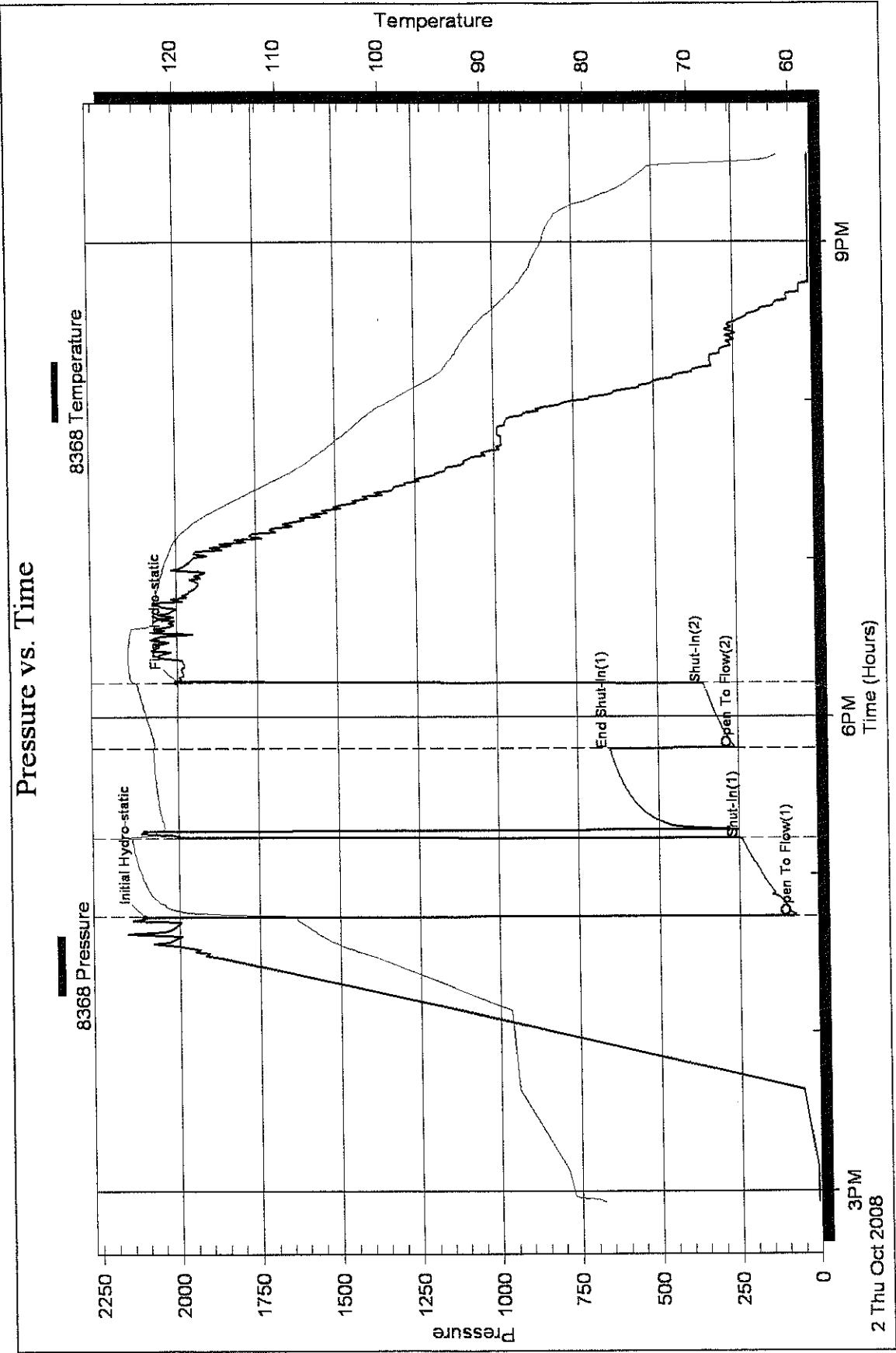
### Recovery Information

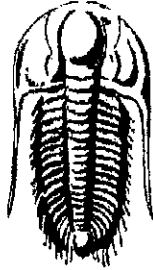
Recovery Table

Length ft	Description	Volume bbl
180.00	MCW 30%M 70%W	2.525
600.00	MCW 20%M 80%W	8.416
70.00	Mud	0.982

Total Length: 850.00 ft      Total Volume: 11.923 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Castle Resources**

PO Box 87  
Schoenchen, KS 67667

ATTN: Jerry Green

**14 14 21 Trego KS**

**Robert E #1**

Start Date: 2008.10.03 @ 06:00:38

End Date: 2008.10.03 @ 15:44:08

Job Ticket #: 33693                      DST #: 2

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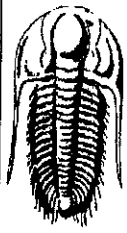
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KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Castle Resources  
 PO Box 87  
 Schoenchen, KS 67667  
 ATTN: Jerry Green

**Robert E #1**  
**14 14 21 Trego KS**  
 Job Ticket: 33693      DST#: 2  
 Test Start: 2008.10.03 @ 06:00:38

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 08:57:23  
 Time Test Ended: 15:44:08  
 Interval: **3990.00 ft (KB) To 4020.00 ft (KB) (TVD)**  
 Total Depth: 4198.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle  
 Tester: Brett Dickinson/Dan  
 Unit No: #38  
 Reference Elevations: 2217.00 ft (KB)  
 2212.00 ft (CF)  
 KB to GR/CF: 5.00 ft

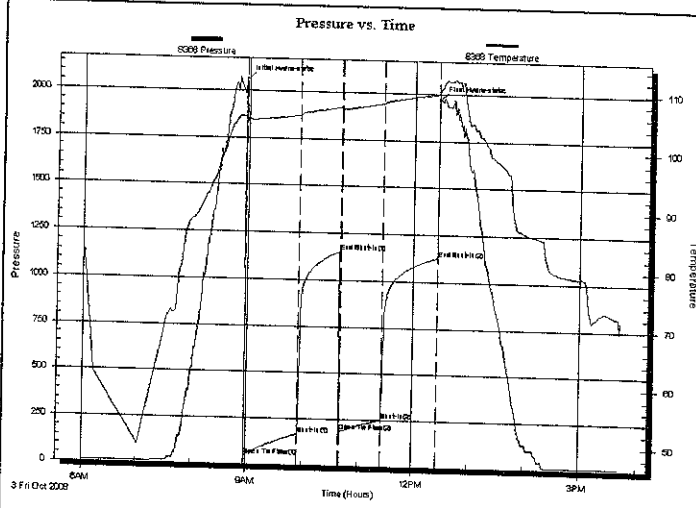
## Serial #: 8368

Outside

Press@RunDepth: 252.64 psig @ 3991.00 ft (KB)  
 Start Date: 2008.10.03      End Date: 2008.10.03  
 Start Time: 06:00:39      End Time: 15:44:08

Capacity: 7000.00 psig  
 Last Calib.: 2008.10.03  
 Time On Btm: 2008.10.03 @ 08:57:08  
 Time Off Btm: 2008.10.03 @ 12:26:53

TEST COMMENT: IF-Strong B-B in 55 min  
 ISI-Weak steady 1/2" blow  
 FF-Strong B-B in 20 min  
 FSI-Weak building to 1 1/4"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.97	105.65	Initial Hydro-static
1	47.41	104.47	Open To Flow (1)
58	169.83	105.85	Shut-In(1)
102	1154.38	107.32	End Shut-In(1)
104	189.15	107.02	Open To Flow (2)
149	252.64	108.09	Shut-In(2)
210	1129.97	109.82	End Shut-In(2)
210	1969.76	110.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	Mdy Wtr	4.35
60.00	SltlyOCW 3%o 97%w	0.84
40.00	OCM 20%o 80%fm	0.56
75.00	CGsyO 10%g 90%o	1.05
0.00	315 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castle Resources  
PO Box 87  
Schoenchen, KS 67667  
ATTN: Jerry Green

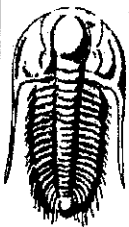
**Robert E #1**  
**14 14 21 Trego KS**  
Job Ticket: 33693      **DST#: 2**  
Test Start: 2008.10.03 @ 06:00:38

### Tool Information

Drill Pipe:	Length: 3994.00 ft	Diameter: 3.80 inches	Volume: 56.03 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<b>Total Volume: 56.03 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3990.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	4017.00 ft			
Interval between Packers:	27.00 ft			
Tool Length:	229.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3970.00	
Shut In Tool	5.00			3975.00	
Hydraulic tool	5.00			3980.00	
Packer	5.00			3985.00	21.00      Bottom Of Top Packer
Packer	5.00			3990.00	
Stubb	1.00			3991.00	
Recorder	0.00	8368	Outside	3991.00	
Perforations	25.00			4016.00	
Blank Off Sub	1.00			4017.00	27.00      Tool Interval
Packer	5.00			4022.00	
Perforations	11.00			4033.00	
Recorder	0.00	8372	Inside	4033.00	
Change Over Sub	1.00			4034.00	
Blank Spacing	156.00			4190.00	
Change Over Sub	1.00			4191.00	
Perforations	4.00			4195.00	
Bullnose	3.00			4198.00	181.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>229.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Castle Resources  
PO Box 87  
Schoenchen, KS 67667  
ATTN: Jerry Green

**Robert E #1**  
**14 14 21 Trego KS**  
Job Ticket: 33693      **DST#: 2**  
Test Start: 2008.10.03 @ 06:00:38

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	32000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Mdy Wtr	4.348
60.00	SiltyOCW 3%o 97%w	0.842
40.00	OCM 20%o 80% <i>m</i>	0.561
75.00	CGsyO 10%g 90%o	1.052
0.00	315 GIP	0.000

Total Length: 485.00 ft      Total Volume: 6.803 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Rw .13 @ 80 = 32000ppm

### Pressure vs. Time

