

## DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc>**

PO Box 87  
Schoenchen, KS 67667

ATTN: Jerry Green

**23 17 9 Ellsworth KS**

**Rolf #1**

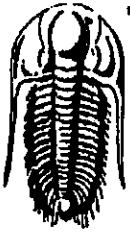
Start Date: 2010.10.11 @ 00:20:33

End Date: 2010.10.11 @ 07:03:33

Job Ticket #: 39019                      DST #: 1

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

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**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

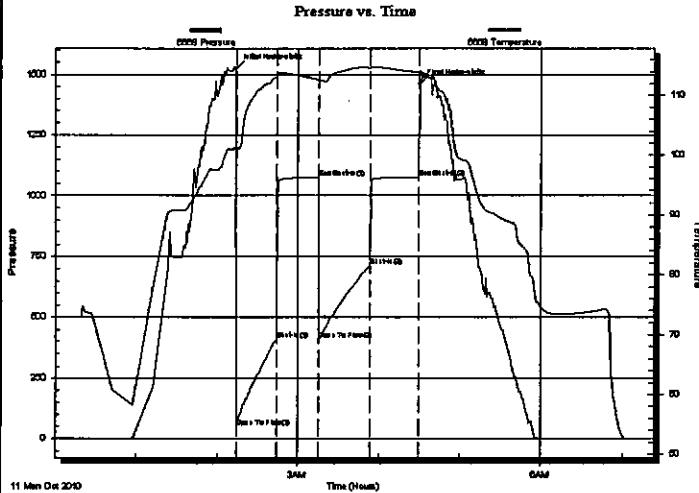
**Rolf #1**  
**23 17 9 Ellsworth KS**  
Job Ticket: 39019      **DST#: 1**  
Test Start: 2010.10.11 @ 00:20:33

### GENERAL INFORMATION:

Formation: **Simpson/Arbuckle**  
Deviated: **No Whipstock**      ft (KB)      Test Type: **Conventional Bottom Hole**  
Time Tool Opened: **02:14:33**      Tester: **Jason McLemore**  
Time Test Ended: **07:03:33**      Unit No: **54**  
Interval: **3140.00 ft (KB) To 3206.00 ft (KB) (TVD)**      Reference Elevations: **1777.00 ft (KB)**  
Total Depth: **3206.00 ft (KB) (TVD)**      **1770.00 ft (CF)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**      KB to GR/CF: **7.00 ft**

**Serial #: 6668**      Inside  
Press@RunDepth: **713.20 psig @ 3175.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.10.11**      End Date: **2010.10.11**      Last Calib.: **2010.10.11**  
Start Time: **00:20:35**      End Time: **07:03:33**      Time On Btm: **2010.10.11 @ 02:14:03**  
Time Off Btm: **2010.10.11 @ 04:30:03**

**TEST COMMENT:** IFF-Strong, BOB in 2Min.  
ISI-Dead  
FFP-Strong, BOB in 3 Min.  
FSI-Dead



### PRESSURE SUMMARY

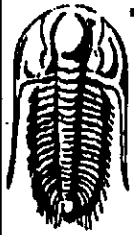
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1525.95	101.31	Initial Hydro-static
1	47.92	100.87	Open To Flow (1)
30	410.15	113.06	Shut-In(1)
62	1072.30	112.70	End Shut-In(1)
62	408.38	112.43	Open To Flow (2)
100	713.20	114.65	Shut-In(2)
136	1074.13	113.85	End Shut-In(2)
136	1461.57	114.10	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1560.00	Muddy Water/Oil Scum	21.36

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Castle Resources, Inc>

**Rolf #1**

PO Box 87  
Schoenchen, KS 67667

**23 17 9 Ellsworth KS**

Job Ticket: 39019

DST#: 1

ATTN: Jerry Green

Test Start: 2010.10.11 @ 00:20:33

**Tool Information**

Drill Pipe:	Length: 3088.00 ft	Diameter: 3.80 inches	Volume: 43.32 bbl	Tool Weight: 2000.00 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: 57.00 ft	Diameter: 2.25 inches	Volume: 0.28 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 43.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3140.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3120.00	
Shut In Tool	5.00			3125.00	
Hydraulic tool	5.00			3130.00	
Packer	5.00			3135.00	21.00 Bottom Of Top Packer
Packer	5.00			3140.00	
Stubb	1.00			3141.00	
Perforations	1.00			3142.00	
Change Over Sub	1.00			3143.00	
Blank Spacing	31.00			3174.00	
Change Over Sub	1.00			3175.00	
Recorder	0.00	6668	Inside	3175.00	
Recorder	0.00	8360	Outside	3175.00	
Perforations	28.00			3203.00	
Bullnose	3.00			3206.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**Roll #1**  
**23 17 9 Ellsworth KS**  
Job Ticket: 39019      **DST#: 1**  
Test Start: 2010.10.11 @ 00:20:33

## 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:	8800 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

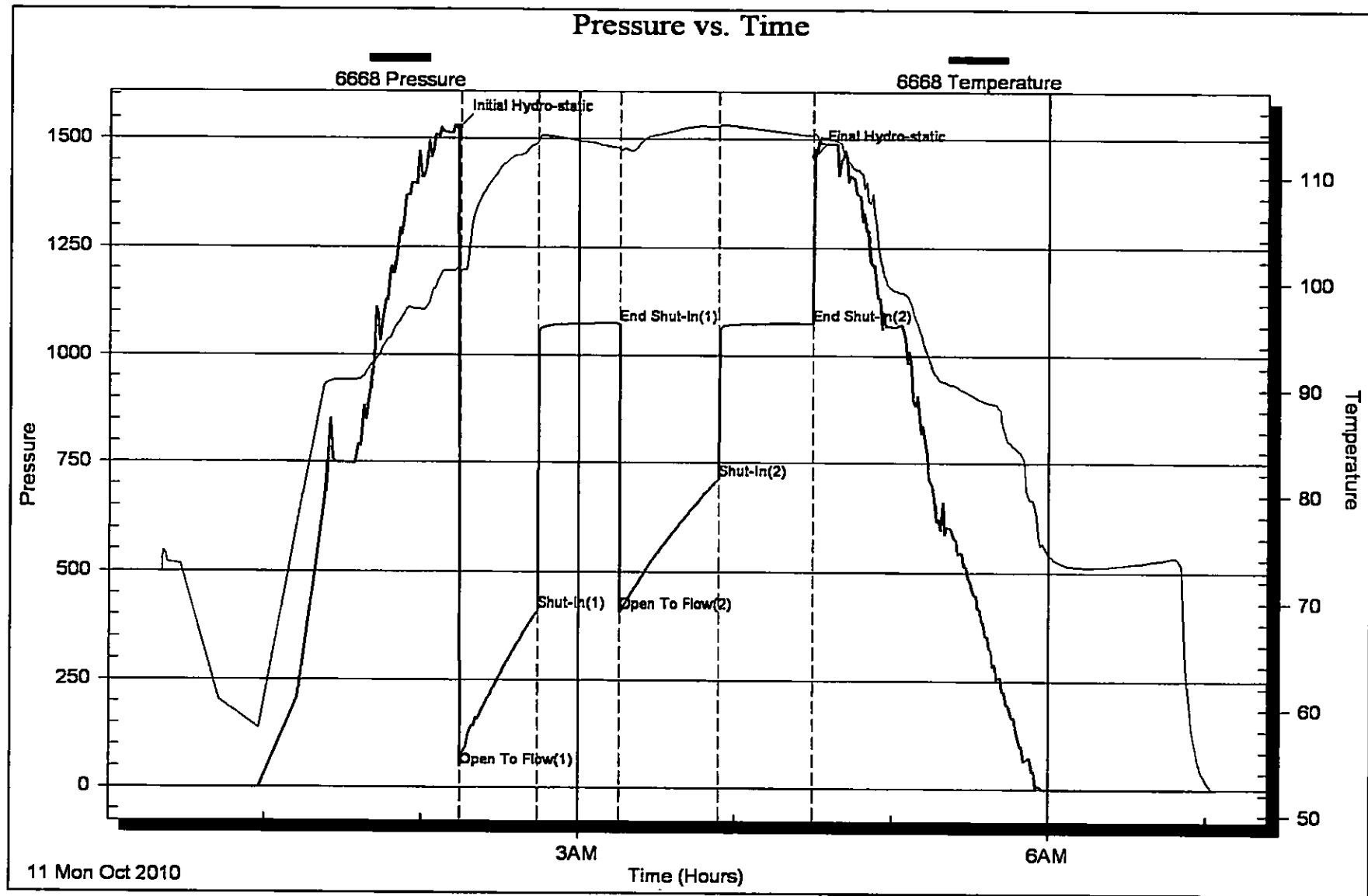
Length ft	Description	Volume bbl
1560.00	Muddy Water/W/Oil Scum	21.363

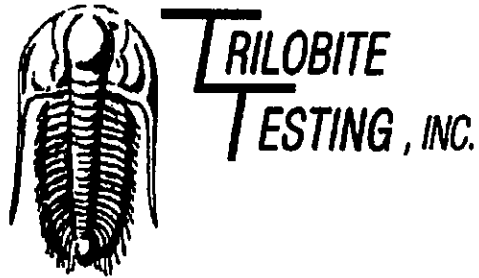
Total Length: 1560.00 ft      Total Volume: 21.363 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .896 @ 55F = 8800 ppm chlorides





## DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc>**

PO Box 87  
Schoenchen, KS 67667

ATTN: Jerry Green

**23 17 9 Ellsworth KS**

**Rolf #1**

Start Date: 2010.10.11 @ 23:18:33

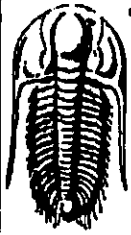
End Date: 2010.10.12 @ 07:13:03

Job Ticket #: 39020                      DST #: 2

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, Inc >

Rolf #1

PO Box 87  
Schoenchen, KS 67667

23 17 9 Ellsworth KS

Job Ticket: 39020 DST#: 2

ATTN: Jerry Green

Test Start: 2010.10.11 @ 23:18:33

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 02:45:18  
 Time Test Ended: 07:13:03

Test Type: **Conventional Straddle**  
 Tester: **Jason McLemore**  
 Unit No: **54**

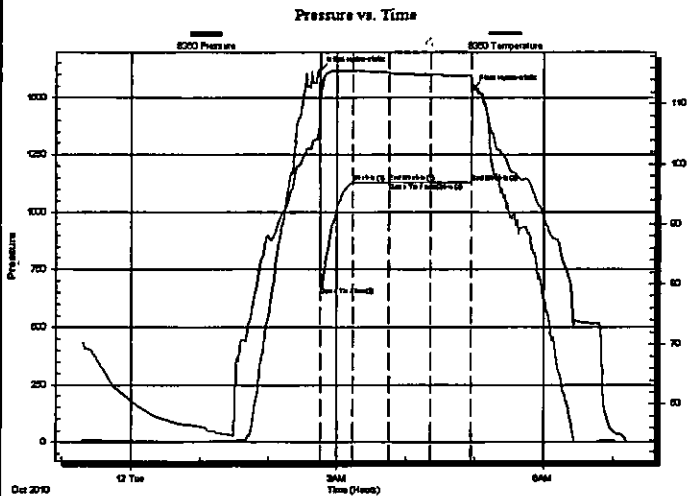
Interval: **3250.00 ft (KB) To 3268.00 ft (KB) (TVD)**  
 Total Depth: **3397.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **1777.00 ft (KB)**  
**1770.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

Serial #: **8360** Inside  
 Press@RunDepth: **1131.19 psig @ 3252.00 ft (KB)**  
 Start Date: **2010.10.11** End Date: **2010.10.12**  
 Start Time: **23:18:35** End Time: **07:13:03**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.10.12**  
 Time On Btm: **2010.10.12 @ 02:44:48**  
 Time Off Btm: **2010.10.12 @ 04:57:18**

TEST COMMENT: **IFP-Strong, BOB in 30 Seconds**  
**ISI-Dead**  
**FFP-Dead**  
**FSI-Dead**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.25	106.22	Initial Hydro-static
1	640.05	106.05	Open To Flow (1)
29	1128.06	115.42	Shut-In(1)
61	1130.89	115.25	End Shut-In(1)
61	1129.54	115.25	Open To Flow (2)
97	1131.19	114.87	Shut-In(2)
132	1131.25	114.67	End Shut-In(2)
133	1537.49	113.83	Final Hydro-static

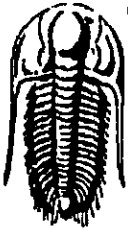
## Recovery

Length (ft)	Description	Volume (bbl)
2580.00	Muddy Water-90%W-10%M	35.67

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castle Resources, Inc>

Rolf #1

PO Box 87  
Schoenchen, KS 67667

23 17 9 Ellsworth KS

Job Ticket: 39020

DST#: 2

ATTN: Jerry Green

Test Start: 2010.10.11 @ 23:18:33

### Tool Information

Drill Pipe:	Length: 3182.00 ft	Diameter: 3.80 inches	Volume: 44.64 bbl	Tool Weight: 2000.00 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: 57.00 ft	Diameter: 2.25 inches	Volume: 0.28 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3250.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3268.00 ft			
Interval between Packers:	18.00 ft			
Tool Length:	168.00 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			3230.00	
Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Packer	5.00			3245.00	21.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	1.00			3252.00	
Recorder	0.00	8360	Inside	3252.00	
Recorder	0.00	6668	Outside	3252.00	
Perforations	12.00			3264.00	
Blank Off Sub	1.00			3265.00	
Blank Spacing	3.00			3268.00	18.00 Tool Interval
Packer	1.00			3269.00	
Recorder	0.00	6755	Below	3269.00	
Change Over Sub	1.00			3270.00	
Blank Spacing	123.00			3393.00	
Change Over Sub	1.00			3394.00	
Bullnose	3.00			3397.00	129.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>168.00</b>				



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Castle Resources, Inc>

Rolf #1

PO Box 87  
Schoenchen, KS 67667

23 17 9 Ellsworth KS

Job Ticket: 39020

DST#: 2

ATTN: Jerry Green

Test Start: 2010.10.11 @ 23:18:33

**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:

14000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
2580.00	Muddy Water-90%W-10%M	35.671

Total Length: 2580.00 ft

Total Volume: 35.671 bbf

Num Fluid Samples: 0

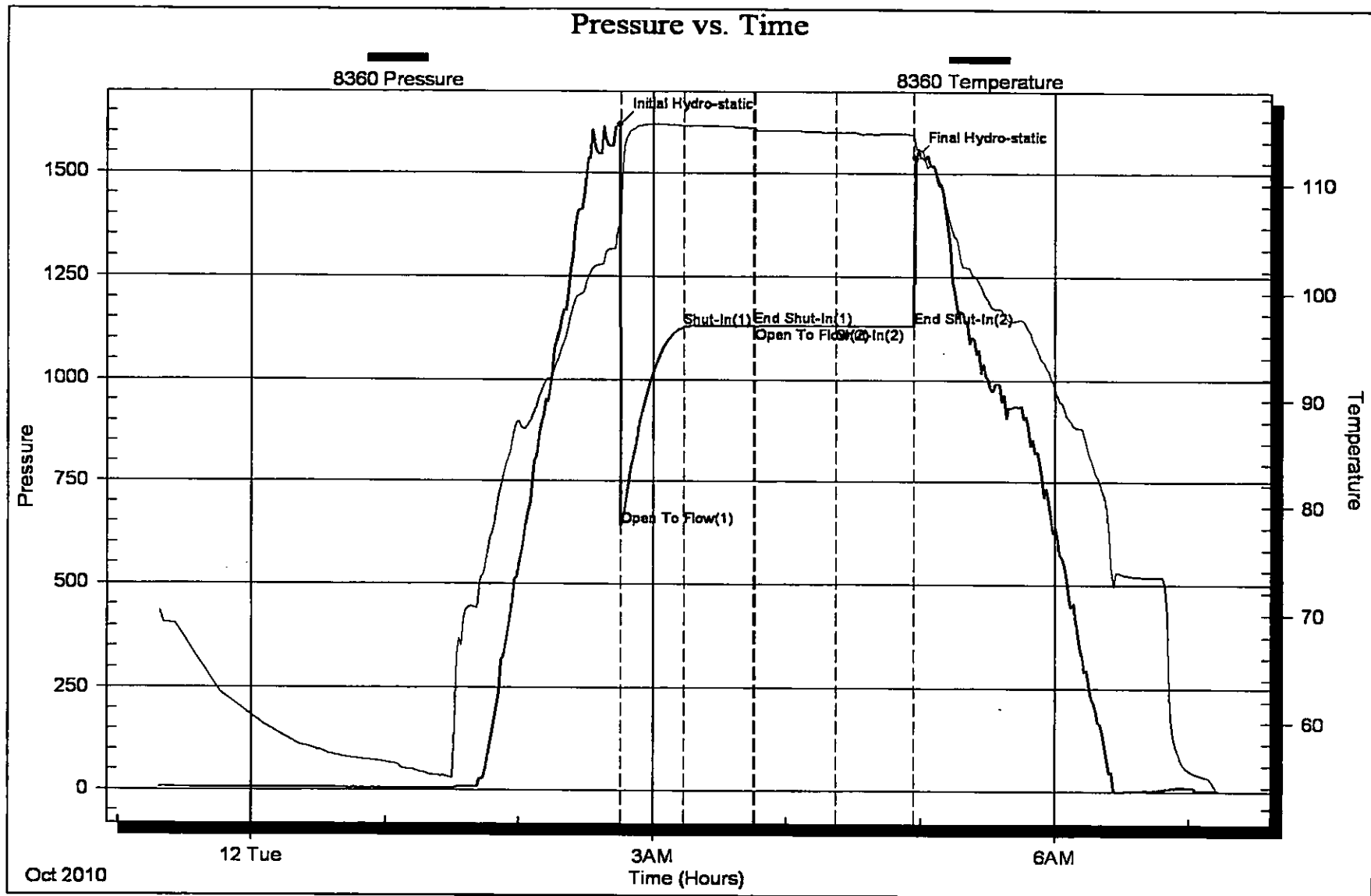
Num Gas Bombs: 0

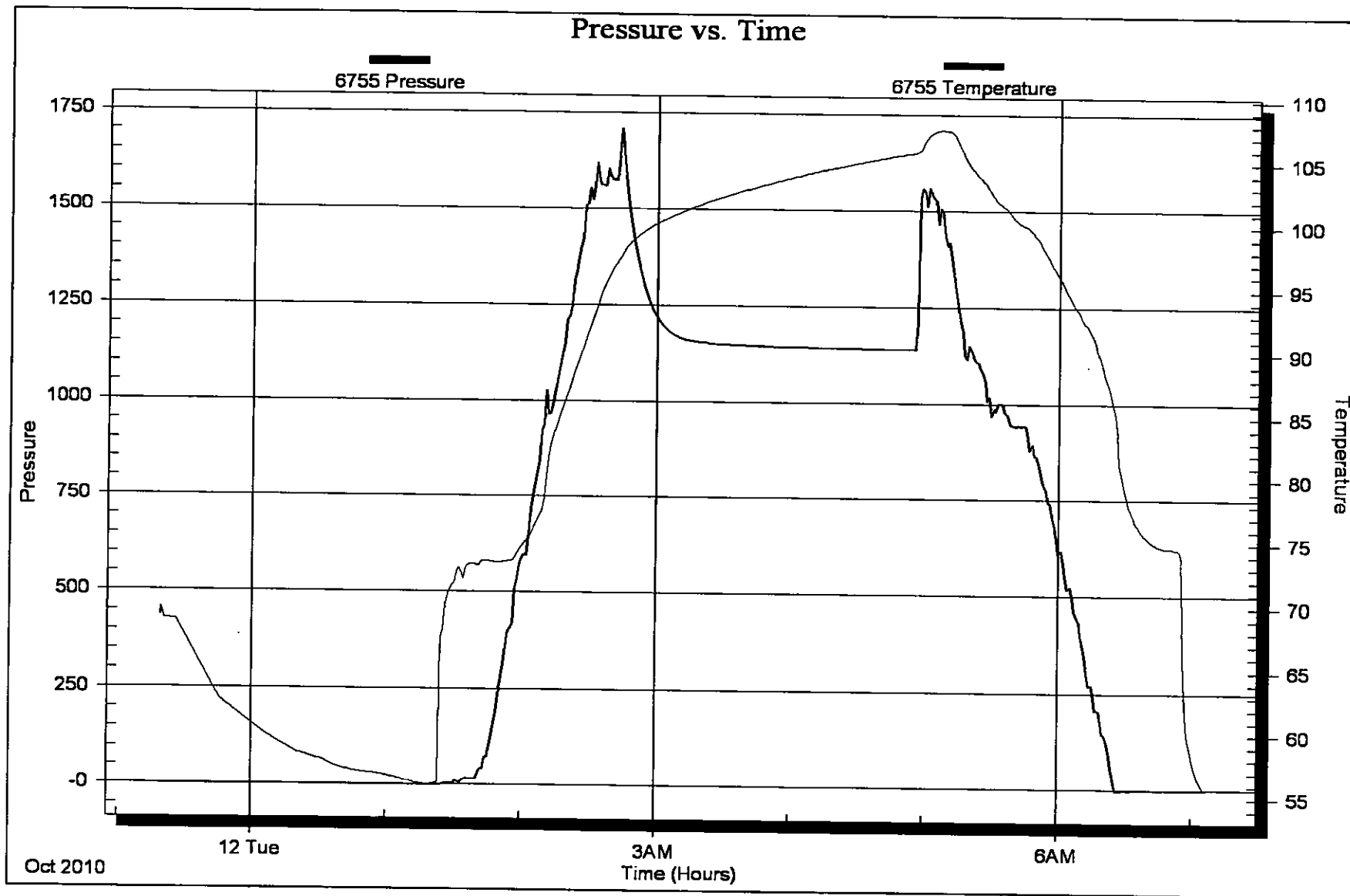
Serial #:

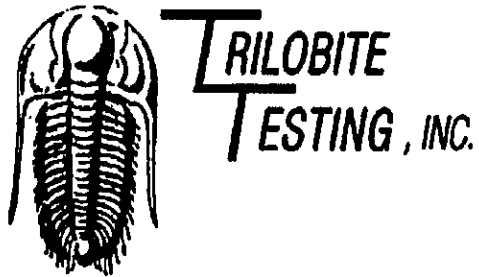
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .537 @ 57F = 14000 ppm chlorides







## DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc>**

PO Box 87  
Schoenchen, KS 67667

ATTN: Jerry Green

**23 17 9 Ellsworth KS**

**Rolf #1**

Start Date: 2010.10.12 @ 12:29:55

End Date: 2010.10.12 @ 17:54:19

Job Ticket #: 40311                      DST #: 3

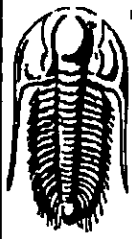
Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

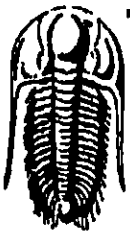
**Roll #1**  
**23 17 9 Ellsworth KS**  
Job Ticket: 40311      **DST#: 3**  
Test Start: 2010.10.12 @ 12:29:55

**Tool Information**

Drill Pipe:	Length: 3036.00 ft	Diameter: 3.80 inches	Volume: 42.59 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 42.59 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial lb
Depth to Top Packer:	3030.00 ft			Final lb
Depth to Bottom Packer:	3060.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	399.00 ft			
Number of Packers:	3	Diameter:	6.75 inches	

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3008.00	
Hydraulic tool	5.00			3013.00	
Jars	5.00			3018.00	
Safety Joint	2.00			3020.00	
Packer	5.00			3025.00	27.00      Bottom Of Top Packer
Packer	5.00			3030.00	
Stubb	1.00			3031.00	
Perforations	4.00			3035.00	
Recorder	0.00	8647	Inside	3035.00	
Recorder	0.00	8371	Outside	3035.00	
Perforations	20.00			3055.00	
Blank Off Sub	1.00			3056.00	
Blank Spacing	4.00			3060.00	30.00      Tool Interval
Packer	5.00			3065.00	
Stubb	1.00			3066.00	
Perforations	12.00			3078.00	
Change Over Sub	1.00			3079.00	
Recorder	0.00	8372	Below	3079.00	
Blank Spacing	311.00			3390.00	
Change Over Sub	1.00			3391.00	
Perforations	8.00			3399.00	
Bullnose	3.00			3402.00	342.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>399.00</b>				



**TRIOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Castle Resources, Inc>

**Rolf #1**

PO Box 87  
Schoenchen, KS 67667

**23 17 9 Ellsworth KS**

Job Ticket: 40311

**DST#: 3**

ATTN: Jerry Green

Test Start: 2010.10.12 @ 12:29:55

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: 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

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

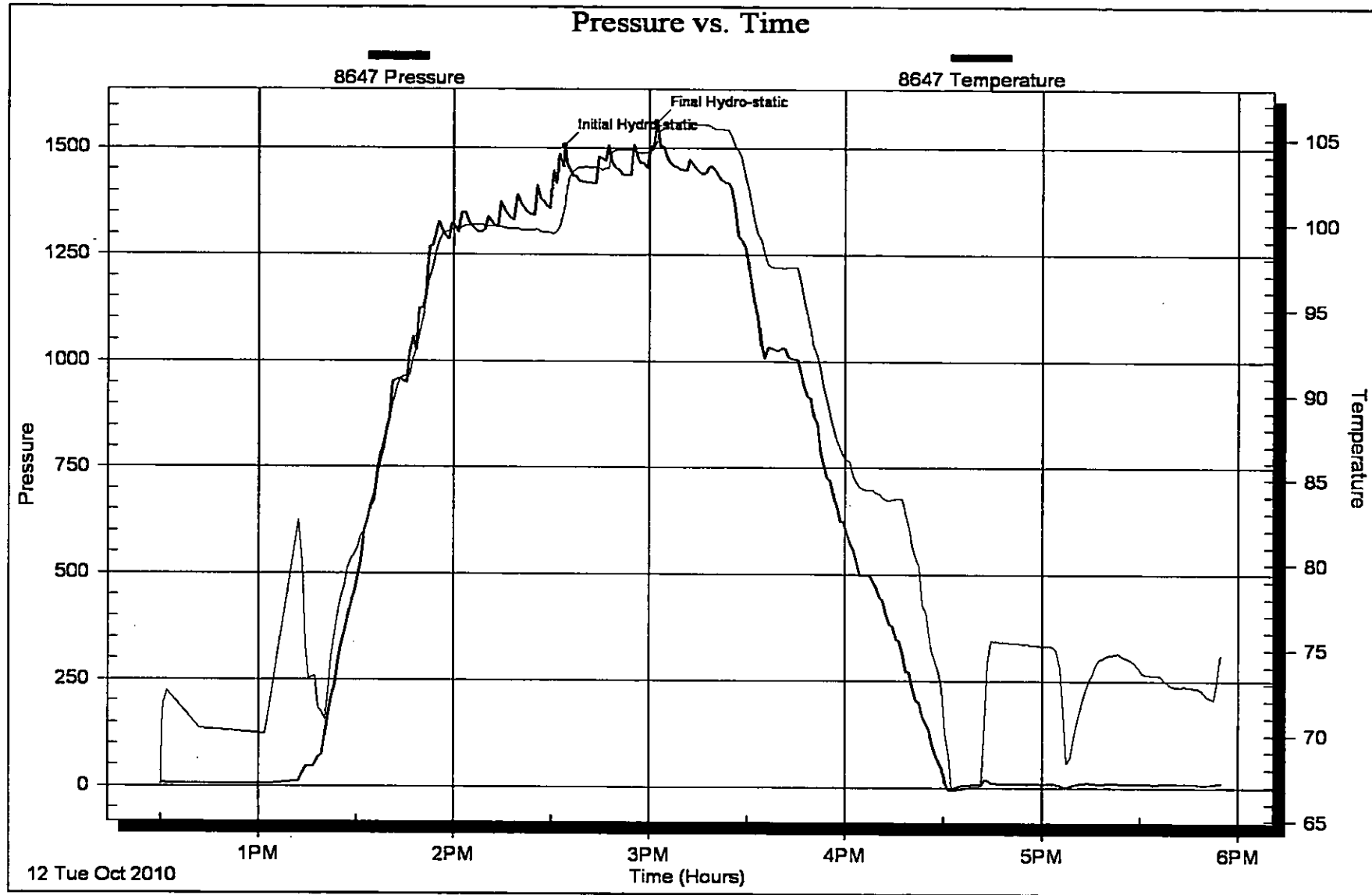
Num Gas Bombs: 0

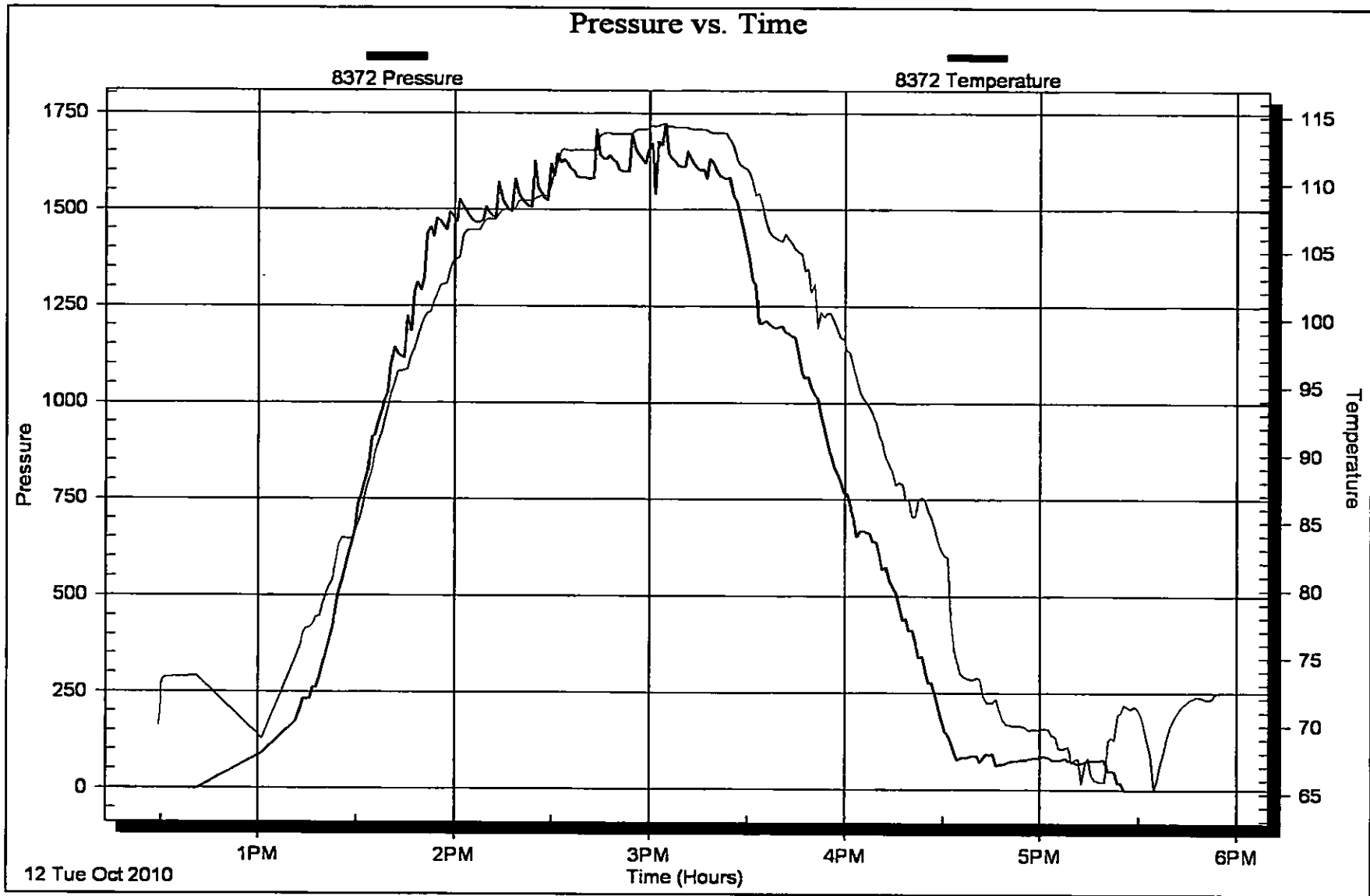
Serial #:

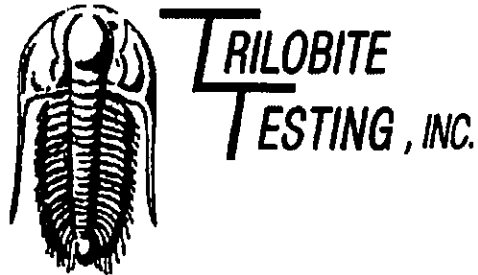
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc>**

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ATTN: Jerry Green

**23 17 9 Ellsworth KS**

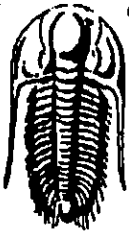
**Rolf #1**

Start Date: 2010.10.12 @ 23:35:39

End Date: 2010.10.13 @ 04:10:03

Job Ticket #: 40312                      DST #: 4

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, Inc >

**Roll #1**

PO Box 87  
Schoenchen, KS 67667

**23 17 9 Ellsworth KS**

Job Ticket: 40312

**DST#: 4**

ATTN: Jerry Green

Test Start: 2010.10.12 @ 23:35:39

## GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:12:34

Time Test Ended: 04:10:03

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

Interval: 2980.00 ft (KB) To 3057.00 ft (KB) (TVD)

Reference Elevations: 1777.00 ft (KB)

Total Depth: 3397.00 ft (KB) (TVD)

1770.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

## Serial #: 8647

Press@RunDepth: 978.19 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.12

End Date: 2010.10.13

Last Calib.: 2010.10.13

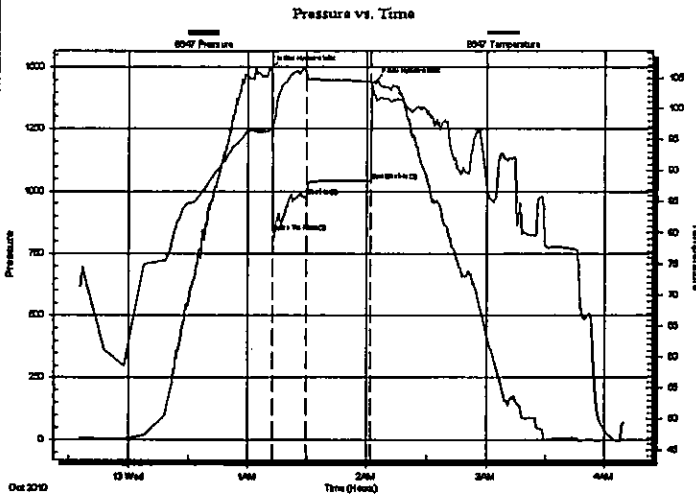
Start Time: 23:35:39

End Time: 04:10:03

Time On Btrr: 2010.10.13 @ 01:11:04

Time Off Btrr: 2010.10.13 @ 02:04:04

**TEST COMMENT:** IFP - BOB 30 sec  
ISI - no blow back BOTTOM PACKER FAILURE  
TIME - 20-30



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1492.02	96.58	Initial Hydro-static
2	837.08	97.11	Open To Flow (1)
19	978.19	105.94	Shut-In(1)
51	1040.32	104.42	End Shut-In(1)
53	1440.23	102.11	Final Hydro-static

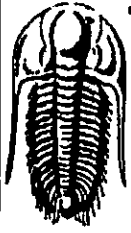
## Recovery

Length (ft)	Description	Volume (bbl)
280.00	Mud	3.41
1425.00	Reversed out	19.99
125.00	MWV 90%W 10%M	1.75

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

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

**Roll #1**  
**23 17 9 Ellsworth KS**  
Job Ticket: 40312      DST#: 4  
Test Start: 2010.10.12 @ 23:35:39

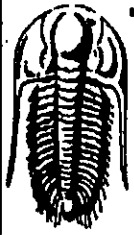
**Tool Information**

Drill Pipe:	Length: 2926.00 ft	Diameter: 3.80 inches	Volume: 41.04 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 57.00 ft	Diameter: 2.25 inches	Volume: 0.28 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 41.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2980.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3057.00 ft			
Interval between Packers:	77.00 ft			
Tool Length:	449.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2958.00	
Hydraulic tool	5.00			2963.00	
Jars	5.00			2968.00	
Safety Joint	2.00			2970.00	
Packer	5.00			2975.00	27.00      Bottom Of Top Packer
Packer	5.00			2980.00	
Stubb	1.00			2981.00	
Change Over Sub	1.00			2982.00	
Blank Spacing	62.00			3044.00	
Change Over Sub	1.00			3045.00	
Recorder	0.00	8647	Inside	3045.00	
Recorder	0.00	8371	Outside	3045.00	
Perforations	7.00			3052.00	
Blank Off Sub	1.00			3053.00	
Blank Spacing	4.00			3057.00	77.00      Tool Interval
Packer	5.00			3062.00	
Stubb	1.00			3063.00	
Perforations	2.00			3065.00	
Recorder	0.00	8372	Below	3065.00	
Perforations	25.00			3090.00	
Change Over Sub	1.00			3091.00	
Blank Spacing	311.00			3402.00	345.00      Bottom Packers & Anchor

**Total Tool Length: 449.00**



**TRIOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Castle Resources, Inc>

**Rolf #1**

PO Box 87  
Schoenchen, KS 67667

**23 17 9 Ellsworth KS**

Job Ticket: 40312      DST#: 4

ATTN: Jerry Green

Test Start: 2010.10.12 @ 23:35:39

**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: ppm

Viscosity: 42.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.14 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6900.00 ppm

Filter Cake: inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
280.00	Mud	3.408
1425.00	Reversed out	19.989
125.00	MW 90%W 10%M	1.753

Total Length: 1830.00 ft      Total Volume: 25.150 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

