



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 W 112th  
Oklahoma City OK 73162

15-033-21519-00-00

ATTN: Rick Eopp

**4 34 16W Comanche KS**

**Merrill Ranch #1-4**

Start Date: 2008.04.09 @ 05:10:46

End Date: 2008.04.09 @ 15:09:46

Job Ticket #: 29881                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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**JUN 02 2008**

CONSERVATION DIVISION  
WICHITA KS

Castelli Exploration Inc

Merrill Ranch #1-4

4 34 16W Comanche KS

DST # 1

Miss.

2008.04.09



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Castelli Exploration Inc  
 6908 W 112th  
 Oklahoma City OK 73162  
 ATTN: Rick Eopp

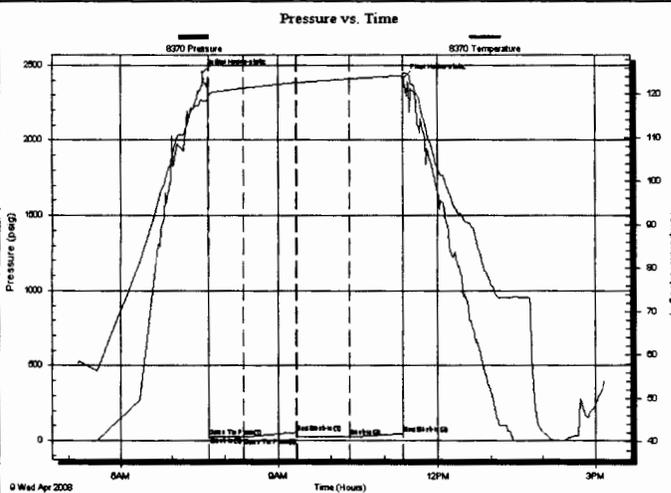
**Merrill Ranch #1-4**  
**4 34 16W Comanche KS**  
 Job Ticket: 29881 **DST#: 1**  
 Test Start: 2008.04.09 @ 05:10:46

## GENERAL INFORMATION:

Formation: **Miss.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:41:46  
 Time Test Ended: 15:09:46  
 Test Type: Conventional Straddle  
 Tester: Esak Hadley  
 Unit No: 23  
 Interval: **4895.00 ft (KB) To 4920.00 ft (KB) (TVD)**  
 Reference Elevations: 1669.00 ft (KB)  
 Total Depth: 5060.00 ft (KB) (TVD) 1653.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 16.00 ft

**Serial #: 8370 Inside**  
 Press@RunDepth: 25.81 psig @ 4896.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2008.04.09 End Date: 2008.04.09 Last Calib.: 2008.04.09  
 Start Time: 05:10:51 End Time: 15:09:46 Time On Btm: 2008.04.09 @ 07:35:01  
 Time Off Btm: 2008.04.09 @ 11:21:31

TEST COMMENT: IF Weak blow No more than 1 "  
 ISI No blow  
 FF Weak blow No more than 1 "  
 FSI No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2449.17	118.41	Initial Hydro-static
7	25.28	117.99	Open To Flow (1)
46	24.01	121.34	Shut-in (1)
106	55.52	122.59	End Shut-in (1)
106	21.84	122.58	Open To Flow (2)
166	25.81	123.50	Shut-in (2)
226	46.03	124.26	End Shut-in (2)
227	2414.12	124.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM	0.05

## Gas Rates

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



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**TOOL DIAGRAM**

Castelli Exploration Inc  
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**Merrill Ranch #1-4**  
**4 34 16W Comanche KS**  
Job Ticket: 29881      **DST#: 1**  
Test Start: 2008.04.09 @ 05:10:46

**Tool Information**

Drill Pipe:	Length: 4710.00 ft	Diameter: 3.80 inches	Volume: 66.07 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
		<b>Total Volume:</b>	<b>66.97 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4895.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	4920.00 ft			
Interval between Packers:	25.00 ft			
Tool Length:	193.00 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			4868.00	
Shut In Tool	5.00			4873.00	
Hydraulic tool	5.00			4878.00	
Jars	5.00			4883.00	
Safety Joint	2.00			4885.00	
Packer	5.00			4890.00	28.00      Bottom Of Top Packer
Packer	5.00			4895.00	
Stubb	1.00			4896.00	
Recorder	0.00	8370	Inside	4896.00	
Recorder	0.00	13789	Inside	4896.00	
Perforations	23.00			4919.00	
Blank Off Sub	1.00			4920.00	25.00      Tool Interval
Packer	0.00			4920.00	
Stubb	1.00			4921.00	
Recorder	0.00	8289	Inside	4921.00	
Perforations	7.00			4928.00	
Change Over Sub	1.00			4929.00	
Blank Spacing	125.00			5054.00	
Change Over Sub	1.00			5055.00	
Bullnose	5.00			5060.00	140.00      Bottom Packers & Anchor

**Total Tool Length: 193.00**

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**FLUID SUMMARY**

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**Merrill Ranch #1-4**  
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Job Ticket: 29881      **DST#: 1**  
Test Start: 2008.04.09 @ 05:10:46

**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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 0.20 inches			

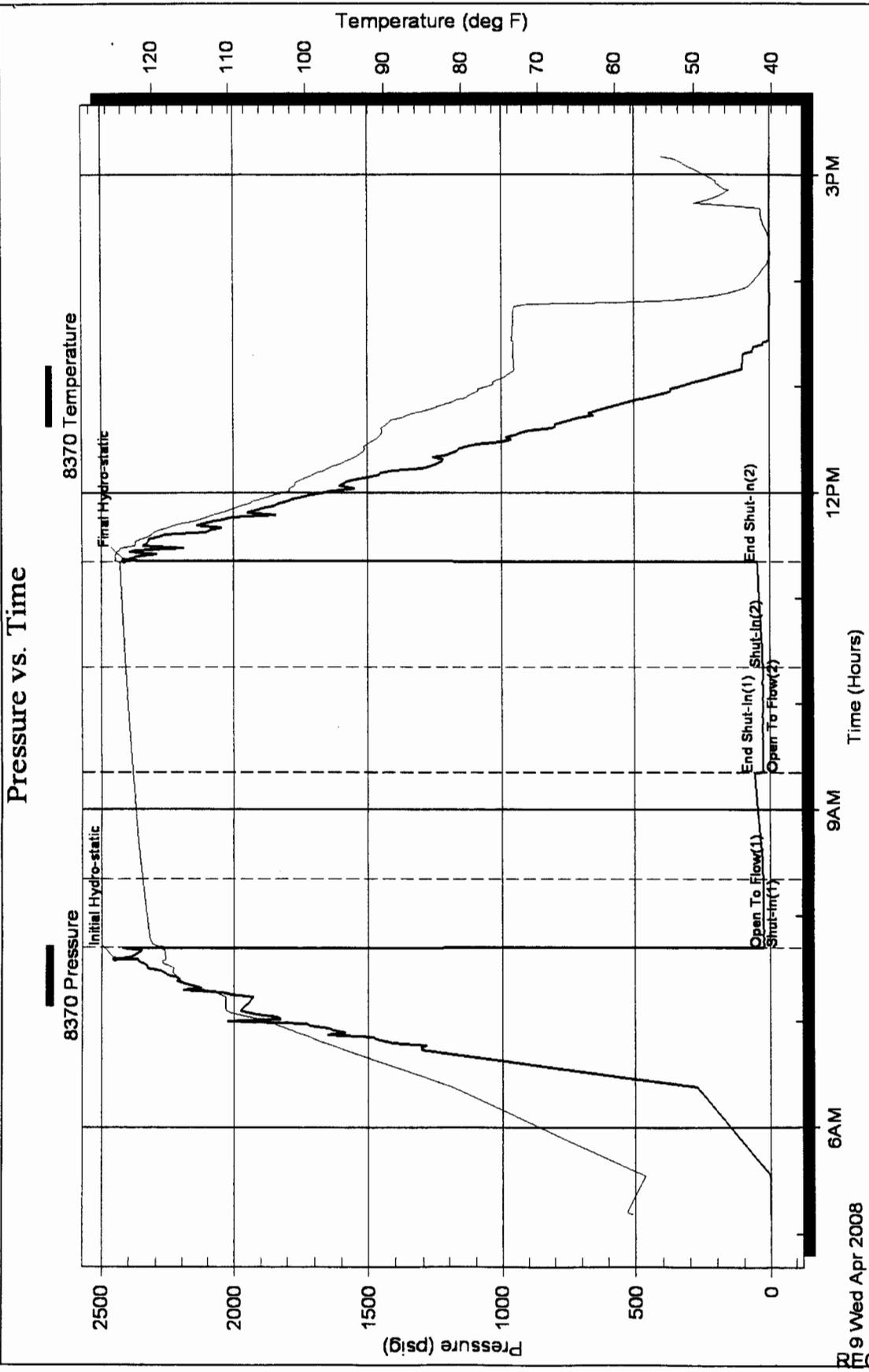
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	DM	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time



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