

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

## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1551 N Waterfront Pkwy Ste 150  
Wichita KS 67206

ATTN: Doug McGiness

**6 17 1E Marion KS**

**Tarn #1**

Start Date: 2007.08.15 @ 14:29:44

End Date: 2007.08.16 @ 05:07:14

Job Ticket #: 28390                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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 Wichita KS 67206  
 ATTN: Doug McGiness

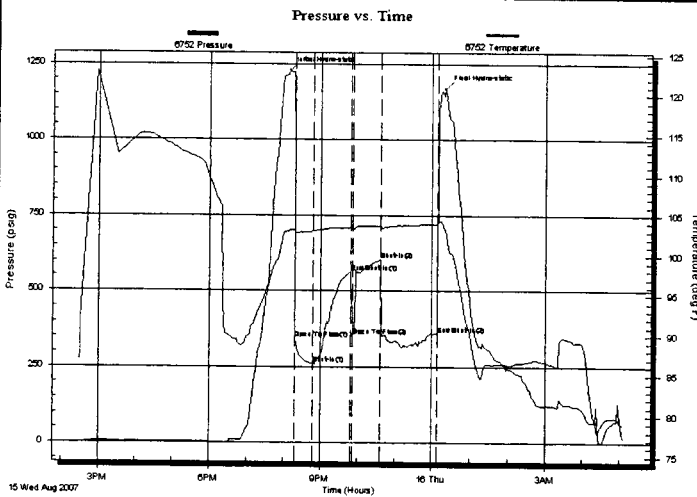
**Tarn #1**  
**6 17 1E Marion KS**  
 Job Ticket: 28390      **DST#: 1**  
 Test Start: 2007.08.15 @ 14:29:44

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:18:14  
 Time Test Ended: 05:07:14  
 Interval: **2625.00 ft (KB) To 2711.00 ft (KB) (TVD)**  
 Total Depth: 2711.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Leal Cason  
 Unit No: 24  
 Reference Elevations: 1401.00 ft (KB)  
 1391.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6752**      **Inside**  
 Press@RunDepth: 602.09 psig @ 2626.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.08.15      End Date: 2007.08.16      Last Calib.: 2007.08.16  
 Start Time: 14:29:49      End Time: 05:07:14      Time On Btm: 2007.08.15 @ 20:08:44  
 Time Off Btm: 2007.08.16 @ 00:20:44

**TEST COMMENT:** IF Fair Blow 9 inches, Bled Off To 7 inches  
 ISI Bled Off No Blow back  
 FF Weak Blow 4 inches, Bled Off To 1 inch  
 FSI No Blow back



## PRESSURE SUMMARY

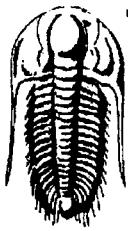
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1226.90	103.21	Initial Hydro-static
10	341.61	102.97	Open To Flow (1)
40	259.92	103.07	Shut-In(1)
100	561.08	103.51	End Shut-In(1)
104	352.46	103.36	Open To Flow (2)
149	602.09	103.67	Shut-In(2)
240	358.27	103.94	End Shut-In(2)
252	1167.95	103.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	OCM 16%O 84%M	1.22
93.00	OCM 30%O 70%M	0.69
77.00	MCO 50%M 50%O	0.59
0.00	15 Feet GIP	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

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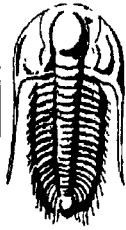
**Tool Information**

Drill Pipe:	Length: 2370.00 ft	Diameter: 2.80 inches	Volume: 18.05 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 254.00 ft	Diameter: 2.25 inches	Volume: 1.25 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 19.30 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	2625.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			2597.00	
Change Over Sub	1.00			2598.00	
Shut In Tool	5.00			2603.00	
Hydraulic tool	5.00			2608.00	
Jars	5.00			2613.00	
Safety Joint	3.00			2616.00	
Packer	5.00			2621.00	29.00 Bottom Of Top Packer
Packer	4.00			2625.00	
Stubb	1.00			2626.00	
Recorder	0.00	6752	Inside	2626.00	
Perforations	4.00			2630.00	
Drill Collar	63.00			2693.00	
Perforations	15.00			2708.00	
Recorder	0.00	6704	Outside	2708.00	
Bullnose	3.00			2711.00	86.00 Bottom Packers & Anchor

**Total Tool Length: 115.00**



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**FLUID SUMMARY**

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## 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: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: inches			

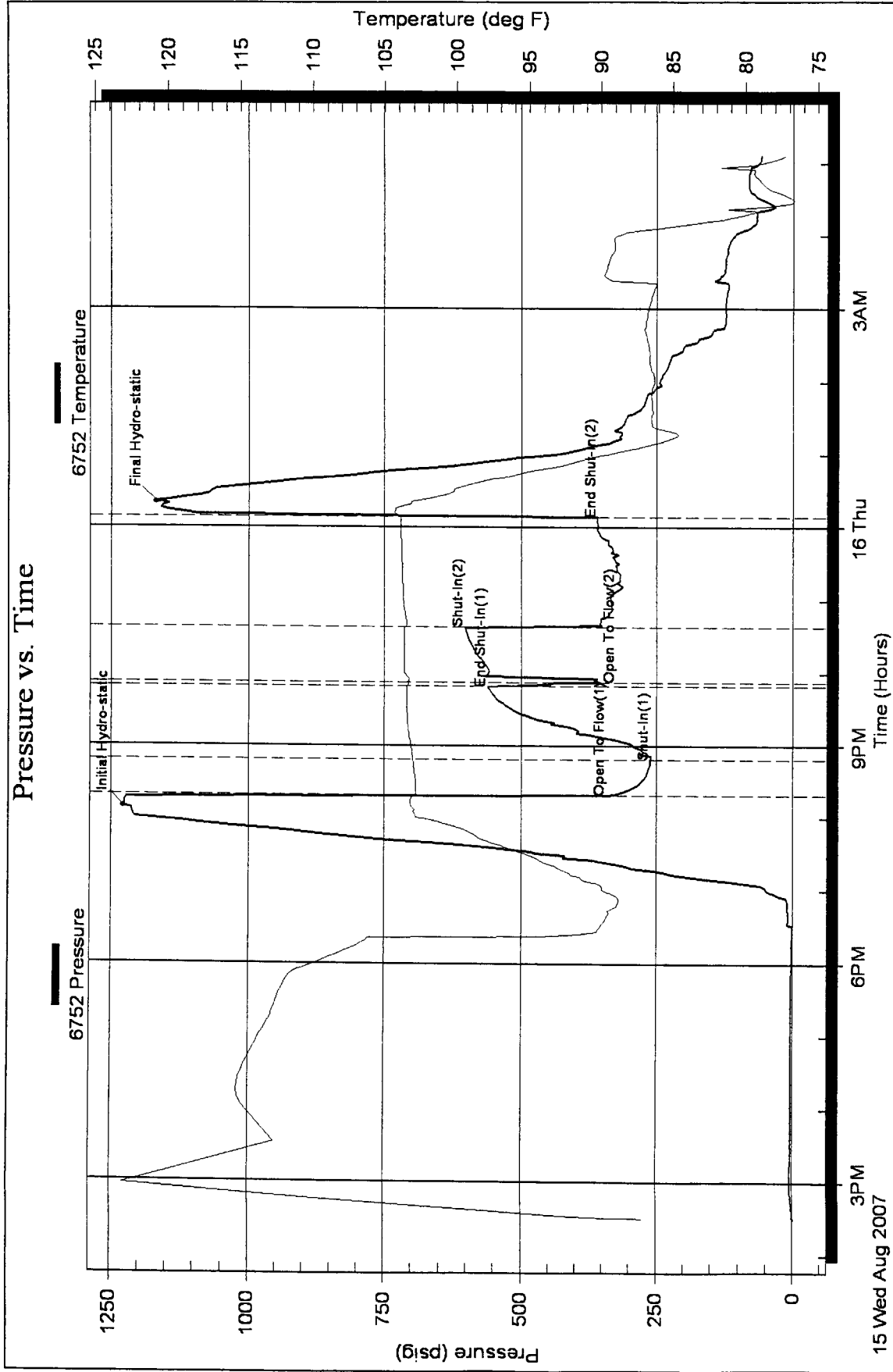
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	OCM 16%O 84%M	1.220
93.00	OCM 30%O 70%M	0.692
77.00	MCO 50%M 50%O	0.586
0.00	15 Feet GIP	0.000

Total Length: 418.00 ft      Total Volume: 2.498 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

# Pressure vs. Time



**CHART PAGE**

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

Ticket # 28390

