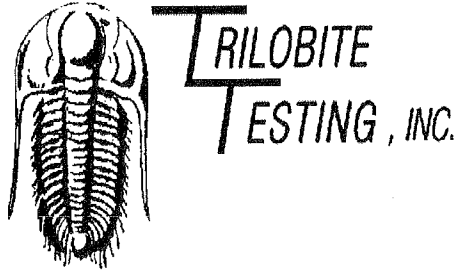


15-159-22482

18-20s-7w



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1551 Waterfront Parkway Ste 150  
Wichita KS 67206

ATTN: Ken LeBlanc

**18 20 7W Rice KS**

**Lionheart #1**

Start Date: 2006.05.26 @ 15:26:41

End Date: 2006.05.27 @ 01:09:41

Job Ticket #: 24066                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

CMX Inc

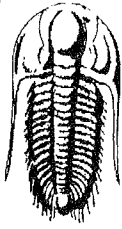
Lionheart #1

18 20 7W Rice KS

DST # 1

Mississippi-Chert

2006.05.26



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
1551 Waterfront Parkway Ste 150  
Wichita KS 67206  
ATTN: Ken LeBlanc

**Lionheart #1**  
**18 20 7W Rice KS**  
Job Ticket: 24066 **DST#: 1**  
Test Start: 2006.05.26 @ 15:26:41

## GENERAL INFORMATION:

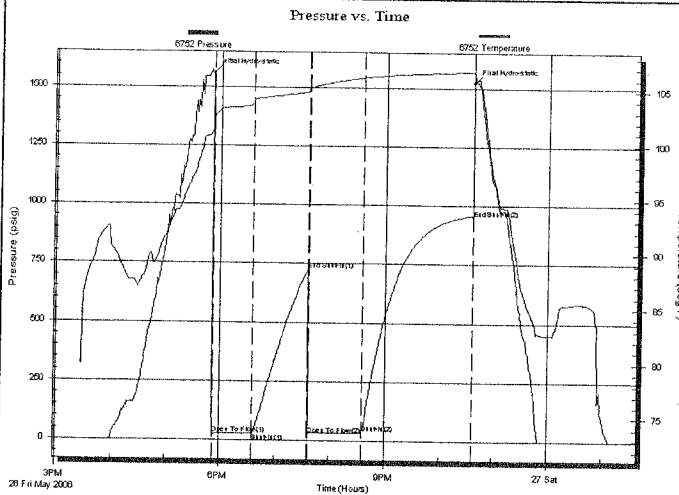
Formation: **Mississippi-Chert**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:52:41  
Time Test Ended: 01:09:41  
Interval: **3230.00 ft (KB) To 3270.00 ft (KB) (TVD)**  
Total Depth: 3270.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Les Adams  
Unit No: 19  
Reference Elevations: 1648.00 ft (KB)  
1638.00 ft (CF)  
KB to GR/CF: 10.00 ft

## Serial #: 6752

Inside

Press@RunDepth: 32.36 psig @ 3231.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2006.05.26 End Date: 2006.05.27 Last Calib.: 2006.05.27  
Start Time: 15:26:43 End Time: 01:09:41 Time On Btm: 2006.05.26 @ 17:51:41  
Time Off Btm: 2006.05.26 @ 22:36:56

TEST COMMENT: IF Strong blow BOB in 33 secs  
ISI No blow  
FF Strong blow BOB in 2 secs (GTS in 46" See gas flow report)  
FSI No blow



## PRESSURE SUMMARY

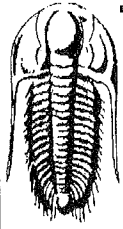
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.68	101.29	Initial Hydro-static
1	25.14	102.61	Open To Flow (1)
44	27.28	103.93	Shut-In(1)
105	723.12	104.83	End Shut-In(1)
106	24.97	105.15	Open To Flow (2)
165	32.36	106.19	Shut-In(2)
285	948.90	106.79	End Shut-In(2)
286	1522.54	106.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	DM	0.20

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.60	6.36



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

CMX Inc  
1551 Waterfront Parkway Ste 150  
Wichita KS 67206  
ATTN: Ken LeBlanc

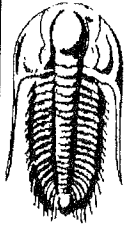
**Lionheart #1**  
**18 20 7W Rice KS**  
Job Ticket: 24066      **DST#: 1**  
Test Start: 2006.05.26 @ 15:26:41

**Tool Information**

Drill Pipe:	Length: 2912.00 ft	Diameter: 3.80 inches	Volume: 40.85 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: 20000.00 lb
Drill Collar:	Length: 311.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight to Pull Loose: 43000.00 lb
		<b>Total Volume: 42.38 bbl</b>		Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3230.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			3212.00	
Hydraulic tool	5.00			3217.00	
Safety Joint	3.00			3220.00	
Packer	5.00			3225.00	23.00      Bottom Of Top Packer
Packer	5.00			3230.00	
Stubb	1.00			3231.00	
Recorder	0.00	6752	Inside	3231.00	
Perforations	36.00			3267.00	
Recorder	0.00	6074	Outside	3267.00	
Bullnose	3.00			3270.00	40.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>63.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1551 Waterfront Parkway Ste 150  
Wichita KS 67206  
ATTN: Ken LeBlanc

**Lionheart #1**  
**18 20 7W Rice KS**  
Job Ticket: 24066      **DST#: 1**  
Test Start: 2006.05.26 @ 15:26:41

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

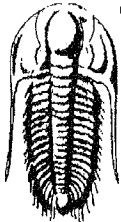
Length ft	Description	Volume bbl
40.00	DM	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0      Num Gas Bombs: 1      Serial #: L.A.-1

Laboratory Name:      Laboratory Location:

Recovery Comments: Ken LeBlanc took gas sample



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

CMX Inc

**Lionheart #1**

1551 Waterfront Parkway Ste 150  
Wichita KS 67206

**18 20 7W Rice KS**

Job Ticket: 24066

**DST#: 1**

ATTN: Ken LeBlanc

Test Start: 2006.05.26 @ 15:26:41

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	46	0.13	2.60	6.36

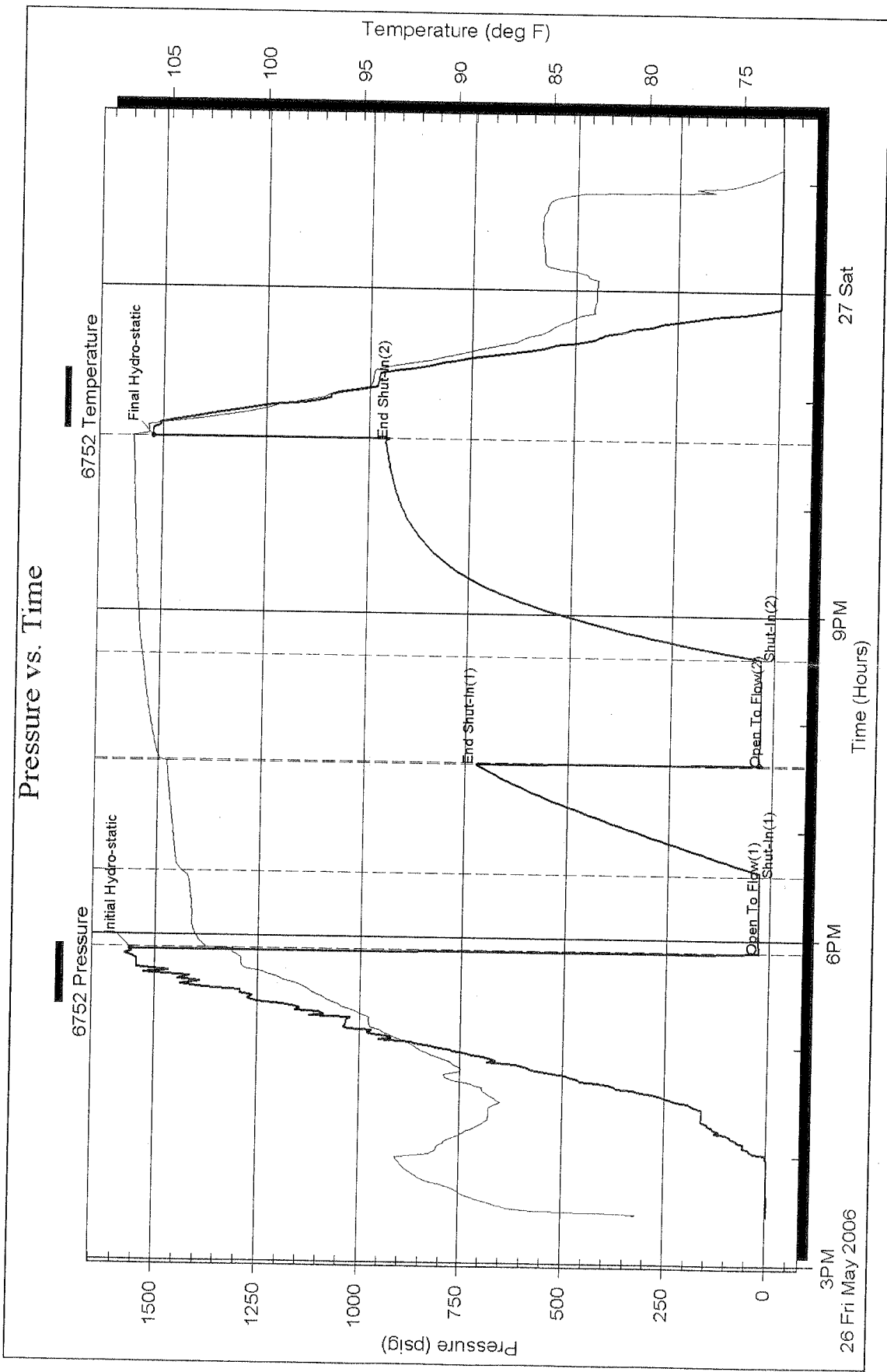
233041

DST Test Number: 1

18 20 7W Rice KS

Serial #: 6752 Inside CMX Inc

### Pressure vs. Time



Ref. No: 24066

Trilobite Testing, Inc