



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206

ATTN: Ken Lablanc

### **Hirt Farms #1**

### **11-30s-12w Barber,KS**

Start Date: 2011.12.14 @ 15:37:00

End Date: 2011.12.14 @ 21:25:30

Job Ticket #: 46335                      DST #: 1

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

Printed: 2011.12.29 @ 14:22:55

CMX Inc  
11-30s-12w Barber,KS  
Hirt Farms #1  
DST # 1  
Council Grove  
2011.12.14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita, KS 67206  
 ATTN: Ken Lablanc

**11-30s-12w Barber, KS**

**Hirt Farms #1**

Job Ticket: 46335

**DST#: 1**

Test Start: 2011.12.14 @ 15:37:00

## GENERAL INFORMATION:

Formation: **Council Grove**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:33:00  
 Time Test Ended: 21:25:30  
 Interval: **2352.00 ft (KB) To 2403.00 ft (KB) (TVD)**  
 Total Depth: 2403.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 47  
 Reference Elevations: 1810.00 ft (KB)  
 1802.00 ft (CF)  
 KB to GR/CF: 8.00 ft

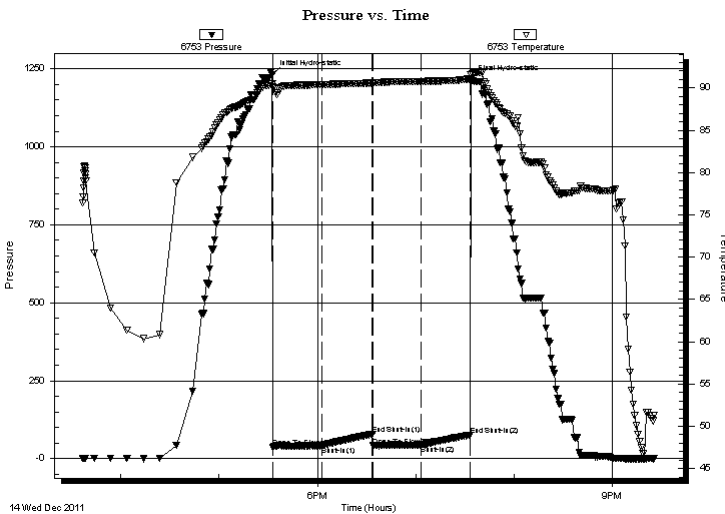
## Serial #: 6753

Inside

Press @ Run Depth: 43.43 psig @ 2389.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.12.14 End Date: 2011.12.14 Last Calib.: 2011.12.14  
 Start Time: 15:37:05 End Time: 21:25:29 Time On Btm: 2011.12.14 @ 17:32:30  
 Time Off Btm: 2011.12.14 @ 19:33:30

TEST COMMENT: 30 - IF- 3 1/2" blow  
 30 - IS- No blow back  
 30 - FF- 3" blow  
 30 - FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1232.78	90.51	Initial Hydro-static
1	35.48	90.18	Open To Flow (1)
30	41.17	90.39	Shut-In(1)
61	78.32	90.60	End Shut-In(1)
62	41.00	90.60	Open To Flow (2)
91	43.43	90.76	Shut-In(2)
121	75.59	91.05	End Shut-In(2)
121	1215.60	91.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GV/SOCM, 5%O, 5%G, 90%M	0.10

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita, KS 67206  
 ATTN: Ken Lablanc

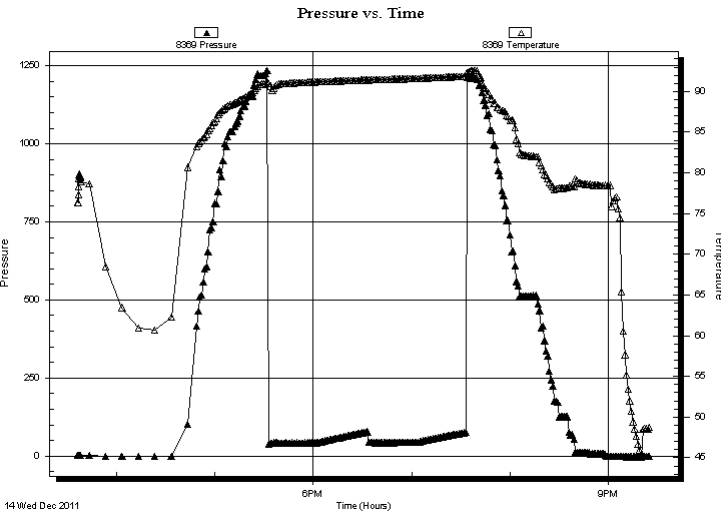
**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
 Job Ticket: 46335      **DST#: 1**  
 Test Start: 2011.12.14 @ 15:37:00

### GENERAL INFORMATION:

Formation: <b>Council Grove</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Cody Bloedorn
Time Tool Opened: 17:33:00	Unit No: 47
Time Test Ended: 21:25:30	
<b>Interval: 2352.00 ft (KB) To 2403.00 ft (KB) (TVD)</b>	Reference Elevations: 1810.00 ft (KB)
Total Depth: 2403.00 ft (KB) (TVD)	1802.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 8.00 ft

<b>Serial #: 8369</b>	<b>Outside</b>		
Press @ Run Depth: psig @ 2389.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2011.12.14	End Date: 2011.12.14	Last Calib.: 2011.12.14	
Start Time: 15:36:35	End Time: 21:25:29	Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:**  
 30 - IF- 3 1/2" blow  
 30 - IS- No blow back  
 30 - FF- 3" blow  
 30 - FS- No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	GV/SOCM, 5%O, 5%G, 90%M	0.10

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46335      **DST#: 1**  
Test Start: 2011.12.14 @ 15:37:00

**Tool Information**

Drill Pipe:	Length: 2145.00 ft	Diameter: 3.80 inches	Volume: 30.09 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 31.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2352.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2325.00	
Shut In Tool	5.00			2330.00	
Hydraulic tool	5.00			2335.00	
Jars	5.00			2340.00	
Safety Joint	2.00			2342.00	
Packer	5.00			2347.00	28.00      Bottom Of Top Packer
Packer	5.00			2352.00	
Stubb	1.00			2353.00	
Perforations	3.00			2356.00	
Change Over Sub	1.00			2357.00	
Drill Pipe	31.00			2388.00	
Change Over Sub	1.00			2389.00	
Recorder	0.00	6753	Inside	2389.00	
Recorder	0.00	8369	Outside	2389.00	
Perforations	11.00			2400.00	
Bullnose	3.00			2403.00	51.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>79.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46335      **DST#: 1**  
Test Start: 2011.12.14 @ 15:37:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 88.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.68 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 82000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GVSOCM, 5%O, 5%G, 90%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6753

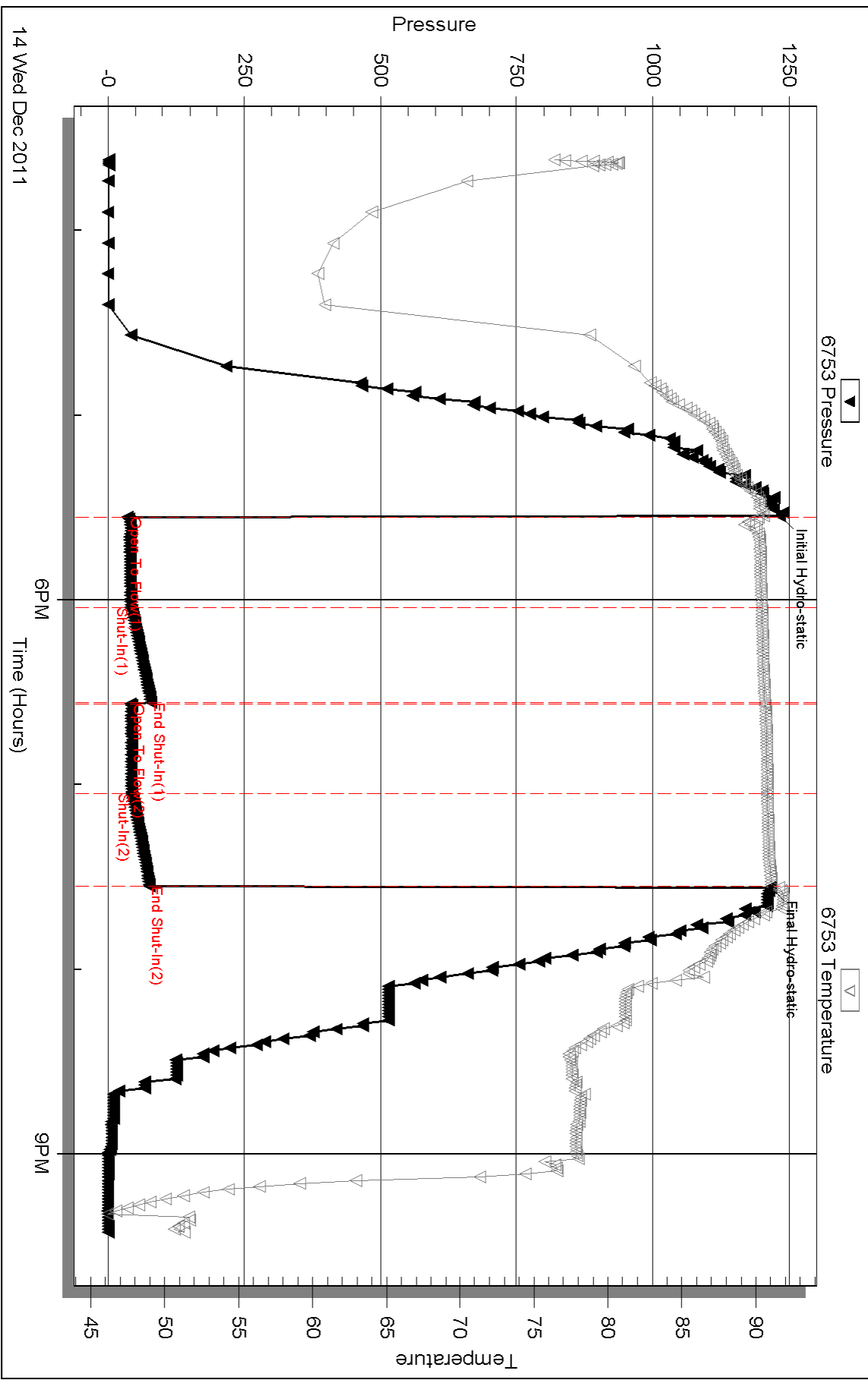
Inside

CMX Inc

Hrt Farms #1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46335

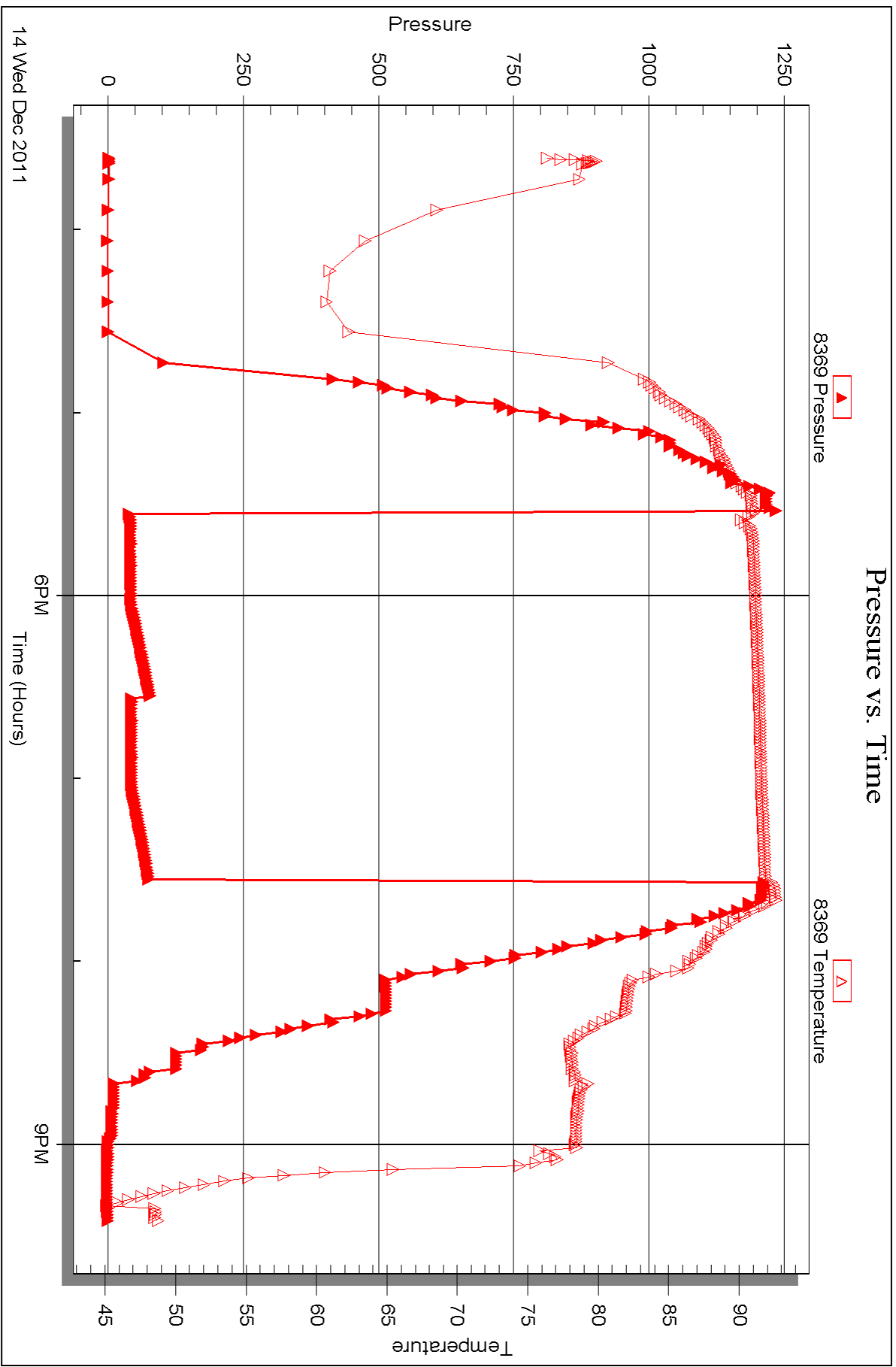
Printed: 2011.12.29 @ 14:22:58

Serial #: 8369

Outside CMX Inc

Hrt Farms #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206

ATTN: Ken Lablanc

### **Hirt Farms #1**

### **11-30s-12w Barber,KS**

Start Date: 2011.12.16 @ 02:38:00

End Date: 2011.12.16 @ 08:06:00

Job Ticket #: 46336                      DST #: 2

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

Printed: 2011.12.29 @ 14:22:03

CMX Inc  
11-30s-12w Barber,KS  
Hirt Farms #1  
DST # 2  
Tarkio Sand  
2011.12.16





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita, KS 67206  
 ATTN: Ken Lablanc

**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
 Job Ticket: 46336 **DST#: 2**  
 Test Start: 2011.12.16 @ 02:38:00

## GENERAL INFORMATION:

Formation: **Tarkio Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:11:00  
 Time Test Ended: 08:06:00  
 Interval: **2924.00 ft (KB) To 2940.00 ft (KB) (TVD)**  
 Total Depth: 2403.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 47  
 Reference Elevations: 1810.00 ft (KB)  
 1802.00 ft (CF)  
 KB to GR/CF: 8.00 ft

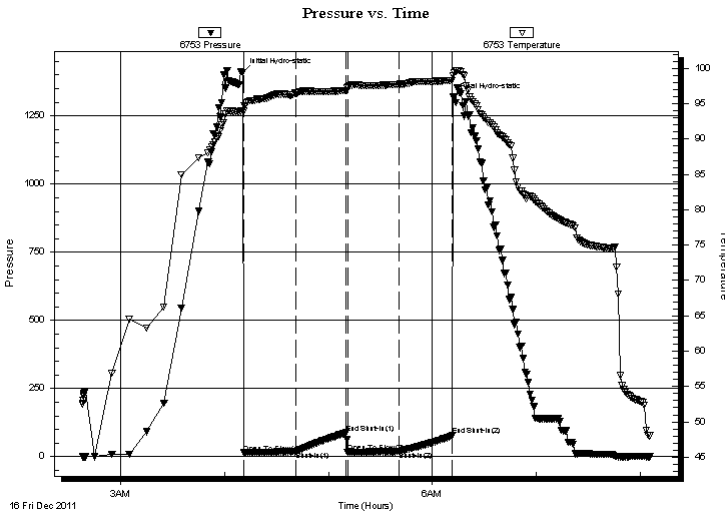
## Serial #: 6753

Inside

Press @ Run Depth: 19.40 psig @ 2925.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.12.16 End Date: 2011.12.16 Last Calib.: 2011.12.16  
 Start Time: 02:38:05 End Time: 08:05:59 Time On Btm: 2011.12.16 @ 04:10:30  
 Time Off Btm: 2011.12.16 @ 06:12:00

TEST COMMENT: 30 - IF- 6" Blow  
 30 - IS- No blow back  
 30 - FF- 4" Blow  
 30 - FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1410.29	94.00	Initial Hydro-static
1	14.02	93.97	Open To Flow (1)
31	18.81	96.49	Shut-In(1)
60	87.59	96.87	End Shut-In(1)
61	16.95	97.25	Open To Flow (2)
91	19.40	97.75	Shut-In(2)
121	77.21	98.32	End Shut-In(2)
122	1318.72	99.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud, Oil scum, 100%Mud	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46336 **DST#: 2**  
Test Start: 2011.12.16 @ 02:38:00

**Tool Information**

Drill Pipe:	Length: 2740.00 ft	Diameter: 3.80 inches	Volume: 38.43 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 39.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	2924.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2897.00	
Shut In Tool	5.00			2902.00	
Hydraulic tool	5.00			2907.00	
Jars	5.00			2912.00	
Safety Joint	2.00			2914.00	
Packer	5.00			2919.00	28.00 Bottom Of Top Packer
Packer	5.00			2924.00	
Stubb	1.00			2925.00	
Recorder	0.00	6753	Inside	2925.00	
Recorder	0.00	8369	Outside	2925.00	
Perforations	12.00			2937.00	
Bullnose	3.00			2940.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46336      **DST#: 2**  
Test Start: 2011.12.16 @ 02:38:00

**Mud and Cushion Information**

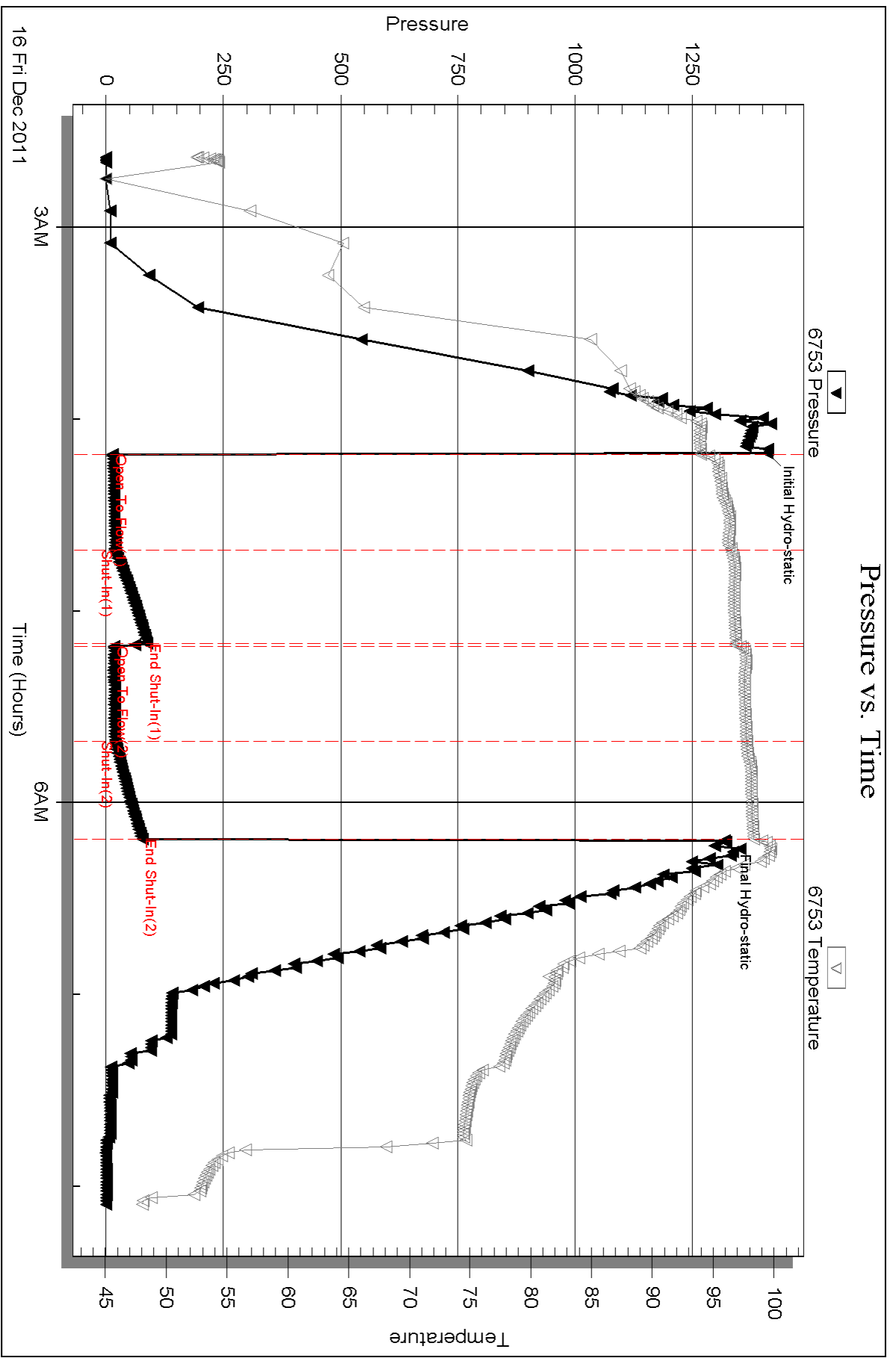
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 88.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.68 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 82000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud, Oil scum, 100%Mud	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:





## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206

ATTN: Ken Lablanc

### **Hirt Farms #1**

### **11-30s-12w Barber,KS**

Start Date: 2011.12.19 @ 06:57:00

End Date: 2011.12.19 @ 14:18:00

Job Ticket #: 46337                      DST #: 3

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

Printed: 2011.12.29 @ 14:21:23

CMX Inc  
11-30s-12w Barber,KS  
Hirt Farms #1  
DST # 3  
KC "Drum"  
2011.12.19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita, KS 67206  
 ATTN: Ken Lablanc

**11-30s-12w Barber, KS**

**Hirt Farms #1**

Job Ticket: 46337

**DST#: 3**

Test Start: 2011.12.19 @ 06:57:00

## GENERAL INFORMATION:

Formation: **KC "Drum"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:08:30  
 Time Test Ended: 14:18:00  
 Interval: **4030.00 ft (KB) To 4050.00 ft (KB) (TVD)**  
 Total Depth: 4050.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 42  
 Reference Elevations: 1810.00 ft (KB)  
 1802.00 ft (CF)  
 KB to GR/CF: 8.00 ft

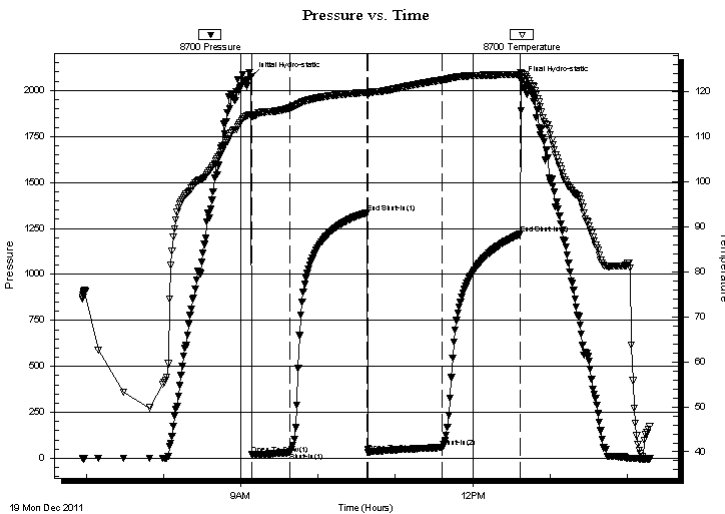
## Serial #: 8700

**Outside**

Press @ Run Depth: 60.43 psig @ 4031.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.12.19 End Date: 2011.12.19 Last Calib.: 2011.12.19  
 Start Time: 06:57:05 End Time: 14:17:59 Time On Btm: 2011.12.19 @ 09:08:00  
 Time Off Btm: 2011.12.19 @ 12:38:00

**TEST COMMENT:** 30 - IF- 6 1/4" Blow  
 60 - IS- No blow back.  
 60 - FF- 8 1/4" Blow  
 60 - FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.46	114.94	Initial Hydro-static
1	20.29	114.42	Open To Flow (1)
30	32.21	116.38	Shut-In(1)
90	1336.21	119.84	End Shut-In(1)
91	31.68	119.57	Open To Flow (2)
149	60.43	122.58	Shut-In(2)
209	1219.45	123.78	End Shut-In(2)
210	2053.06	124.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	GV/SOCWM, 5%G, 5%O, 30%W, 60%M	1.26

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

11-30s-12w Barber, KS

Hirt Farms #1

Job Ticket: 46337

DST#: 3

Test Start: 2011.12.19 @ 06:57:00

### GENERAL INFORMATION:

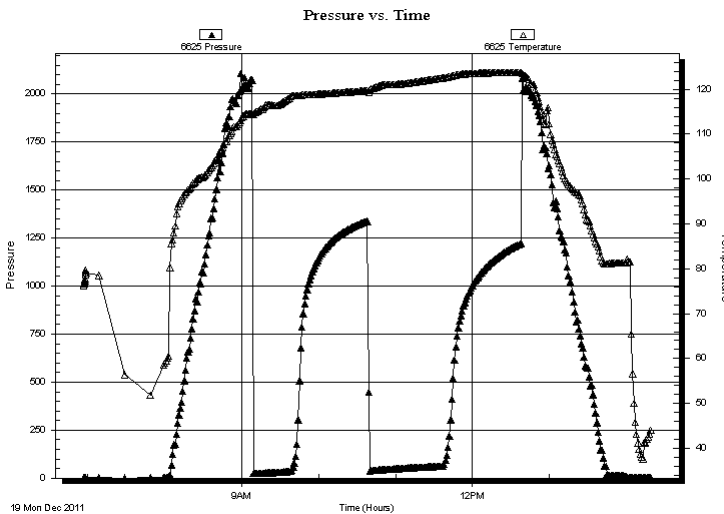
Formation: **KC "Drum"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:08:30  
 Time Test Ended: 14:18:00  
 Interval: **4030.00 ft (KB) To 4050.00 ft (KB) (TVD)**  
 Total Depth: 4050.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 42  
 Reference Elevations: 1810.00 ft (KB)  
 1802.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: **6625**

Inside

Press @ Run Depth: psig @ 4031.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.12.19 End Date: 2011.12.19 Last Calib.: 2011.12.19  
 Start Time: 06:56:35 End Time: 14:19:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30 - IF- 6 1/4" Blow  
 60 - IS- No blow back.  
 60 - FF- 8 1/4" Blow  
 60 - FS- No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
90.00	GV/SOCWM, 5%G, 5%O, 30%W, 60%M	1.26

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46337      **DST#: 3**  
Test Start: 2011.12.19 @ 06:57:00

**Tool Information**

Drill Pipe:	Length: 4031.00 ft	Diameter: 3.80 inches	Volume: 56.54 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: 66000.00 lb
			<u>Total Volume: 56.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4030.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
Change Over Sub	1.00			4003.00	
Shut In Tool	5.00			4008.00	
Hydraulic tool	5.00			4013.00	
Jars	5.00			4018.00	
Safety Joint	2.00			4020.00	
Packer	5.00			4025.00	28.00      Bottom Of Top Packer
Packer	5.00			4030.00	
Stubb	1.00			4031.00	
Recorder	0.00	6625	Inside	4031.00	
Recorder	0.00	8700	Outside	4031.00	
Perforations	16.00			4047.00	
Bullnose	3.00			4050.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 48.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46337      **DST#: 3**  
Test Start: 2011.12.19 @ 06:57:00

## Mud and Cushion Information

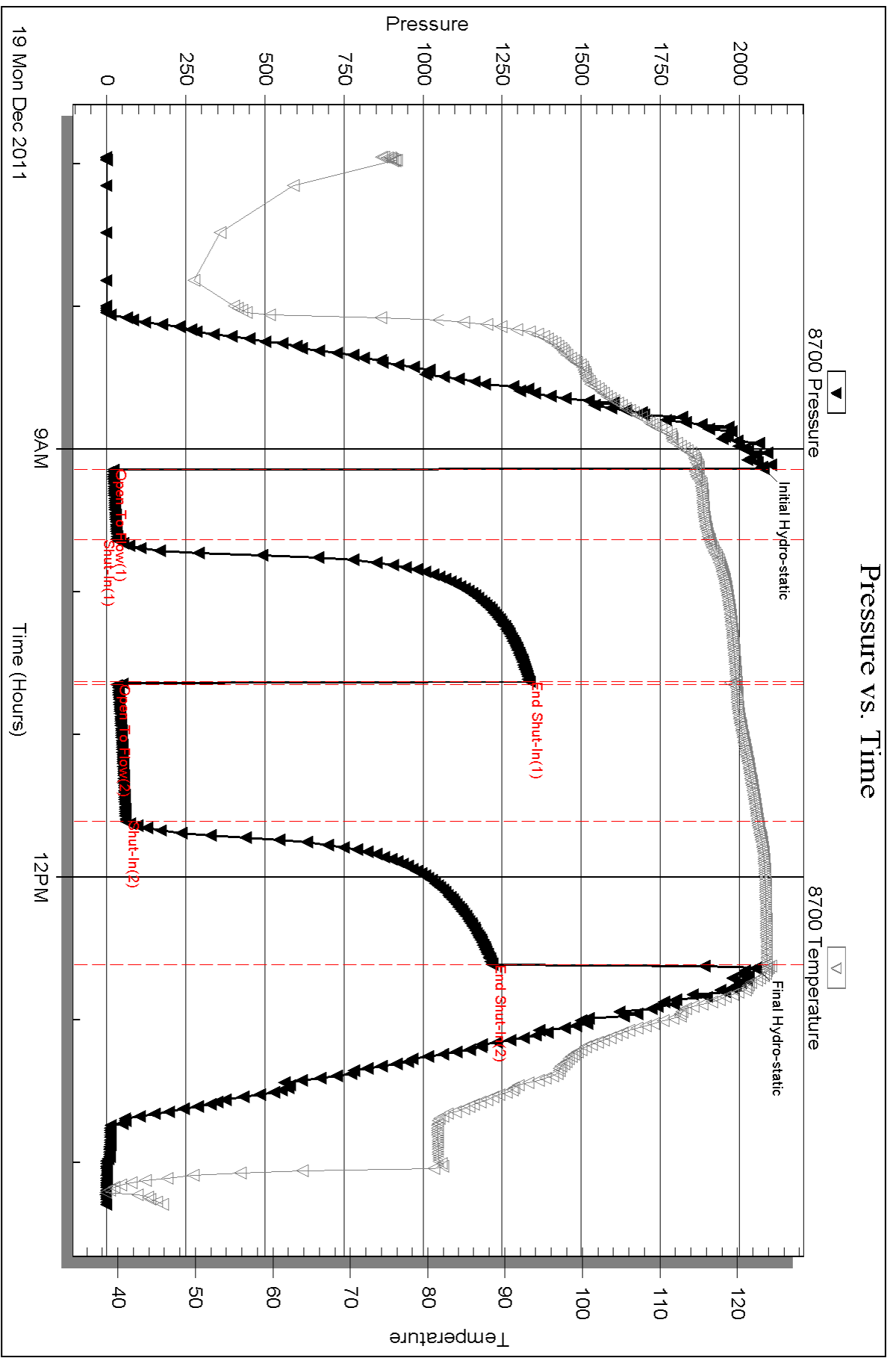
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	55000 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GVSOCWM, 5%G, 5%O, 30%W, 60%M	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Salinity: .2 @ 54 Degrees = 55,000



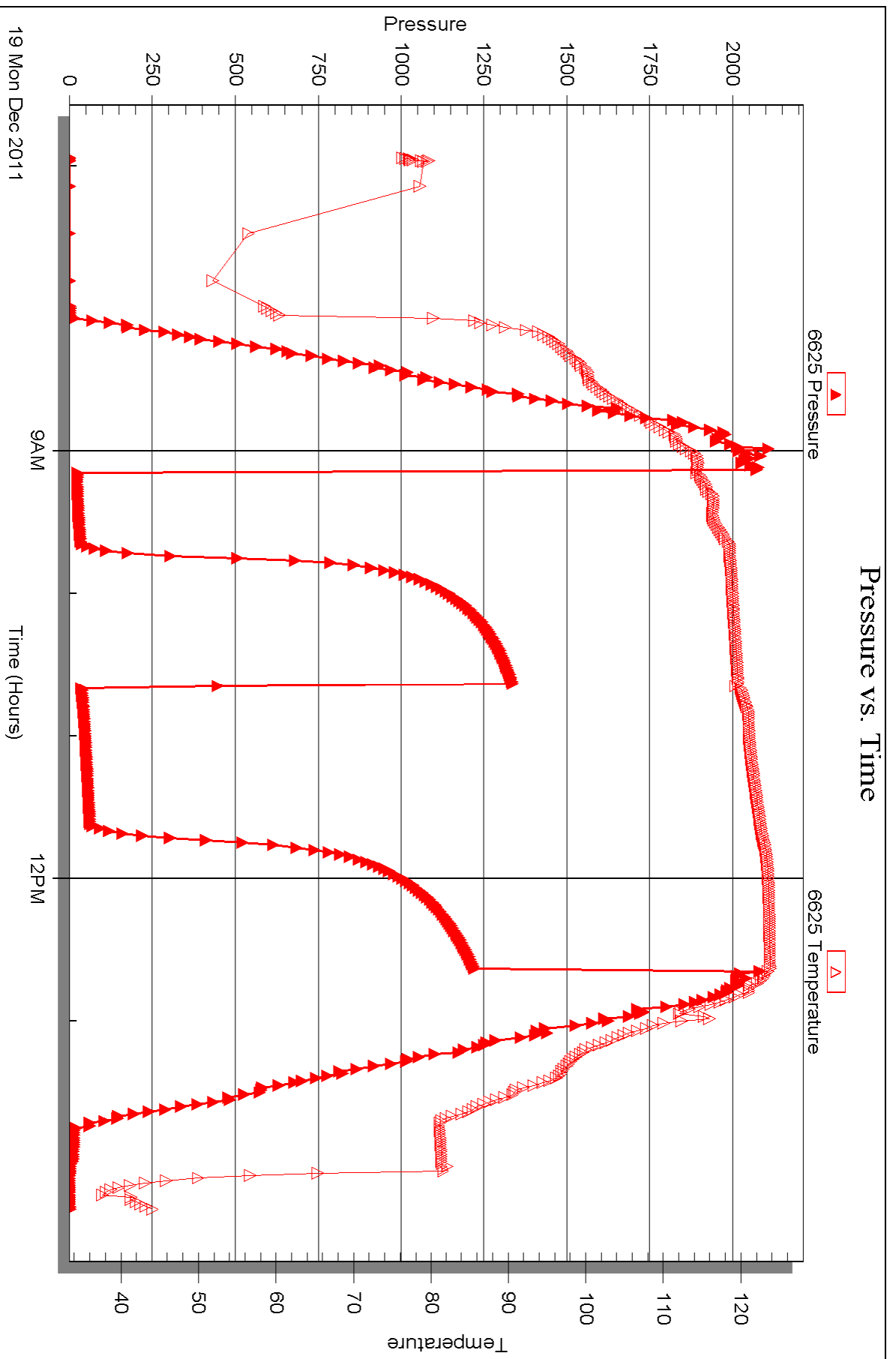
Serial #: 6625

Inside

CMX Inc

Hrt Farms #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46337

Printed: 2011.12.29 @ 14:21:25



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206

ATTN: Ken Lablanc

### **Hirt Farms #1**

### **11-30s-12w Barber,KS**

Start Date: 2011.12.21 @ 17:00:31

End Date: 2011.12.22 @ 00:53:46

Job Ticket #: 44128                      DST #: 4

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

Printed: 2011.12.29 @ 14:20:37



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita, KS 67206  
 ATTN: Ken Lablanc

**11-30s-12w Barber, KS**

**Hirt Farms #1**

Job Ticket: 44128

**DST#: 4**

Test Start: 2011.12.21 @ 17:00:31

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 18:56:16  
 Tester: Leal Cason  
 Time Test Ended: 00:53:46  
 Unit No: 45  
 Interval: **4458.00 ft (KB) To 4480.00 ft (KB) (TVD)**  
 Reference Elevations: 1810.00 ft (KB)  
 Total Depth: 4480.00 ft (KB) (TVD)  
 1802.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

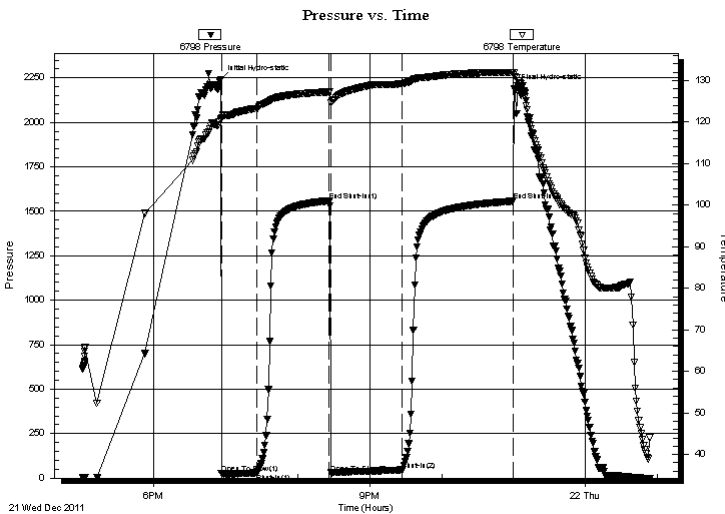
## Serial #: 6798

Inside

Press @ Run Depth: 46.58 psig @ 4459.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.12.21 End Date: 2011.12.22 Last Calib.: 2011.12.22  
 Start Time: 17:00:32 End Time: 00:53:46 Time On Btm: 2011.12.21 @ 18:55:31  
 Time Off Btm: 2011.12.21 @ 23:00:31

**TEST COMMENT:** IF: Fair Blow, BOB in 12 min  
 IS: No Blow back  
 FF: Strong Blow, BOB in 1 min  
 FS: 1 inch Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.01	120.53	Initial Hydro-static
1	25.97	120.86	Open To Flow (1)
31	28.86	123.24	Shut-In(1)
91	1559.38	127.28	End Shut-In(1)
92	29.13	124.59	Open To Flow (2)
152	46.58	129.30	Shut-In(2)
245	1557.18	131.96	End Shut-In(2)
245	2189.34	131.80	Final Hydro-static

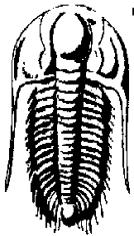
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	850 Feet GIP	0.00
75.00	GOCM 15%G 20%O 65%M	1.05
5.00	Clean Oil	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber, KS**

**Hirt Farms #1**  
Job Ticket: 44128 **DST#: 4**  
Test Start: 2011.12.21 @ 17:00:31

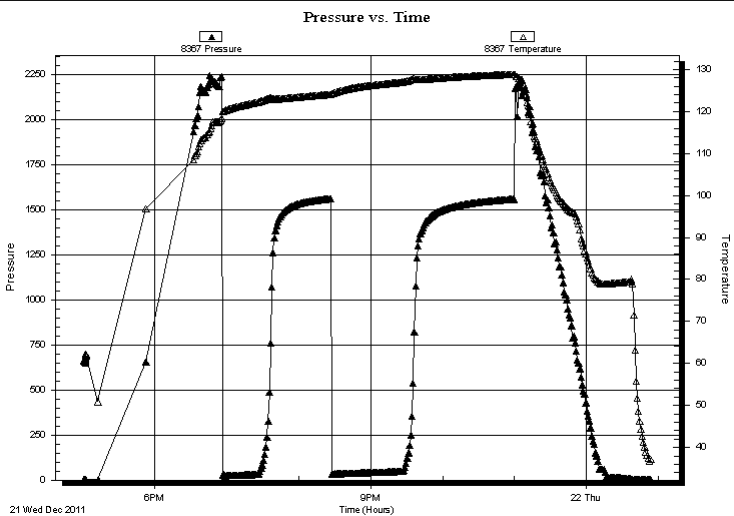
**GENERAL INFORMATION:**

Formation: **Viola**  
Deviated: No Whipstock: ft (KB)  
Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 18:56:16 Tester: Leal Cason  
Time Test Ended: 00:53:46 Unit No: 45  
Interval: **4458.00 ft (KB) To 4480.00 ft (KB) (TVD)**  
Reference Elevations: 1810.00 ft (KB)  
Total Depth: 4480.00 ft (KB) (TVD) 1802.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**

Press @ Run Depth: psig @ 4459.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.12.21 End Date: 2011.12.22 Last Calib.: 2011.12.22  
Start Time: 17:00:32 End Time: 00:53:46 Time On Btm: Time Off Btm

**TEST COMMENT:** IF: Fair Blow , BOB in 12 min  
IS: No Blow back  
FF: Strong Blow , BOB in 1 min  
FS: 1 inch Blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	850 Feet GIP	0.00
75.00	GOCM 15%G 20%O 65%M	1.05
5.00	Clean Oil	0.07

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
Job Ticket: 44128      **DST#: 4**  
Test Start: 2011.12.21 @ 17:00:31

**Tool Information**

Drill Pipe:	Length: 4436.00 ft	Diameter: 3.80 inches	Volume: 62.23 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 62.23 bbl	Tool Chased: ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4458.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4436.00	
Hydraulic tool	5.00			4441.00	
Jars	5.00			4446.00	
Safety Joint	2.00			4448.00	
Packer	5.00			4453.00	27.00      Bottom Of Top Packer
Packer	5.00			4458.00	
Stubb	1.00			4459.00	
Recorder	0.00	6798	Inside	4459.00	
Recorder	0.00	8367	Outside	4459.00	
Perforations	18.00			4477.00	
Bullnose	3.00			4480.00	22.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 44128      **DST#: 4**  
Test Start: 2011.12.21 @ 17:00:31

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

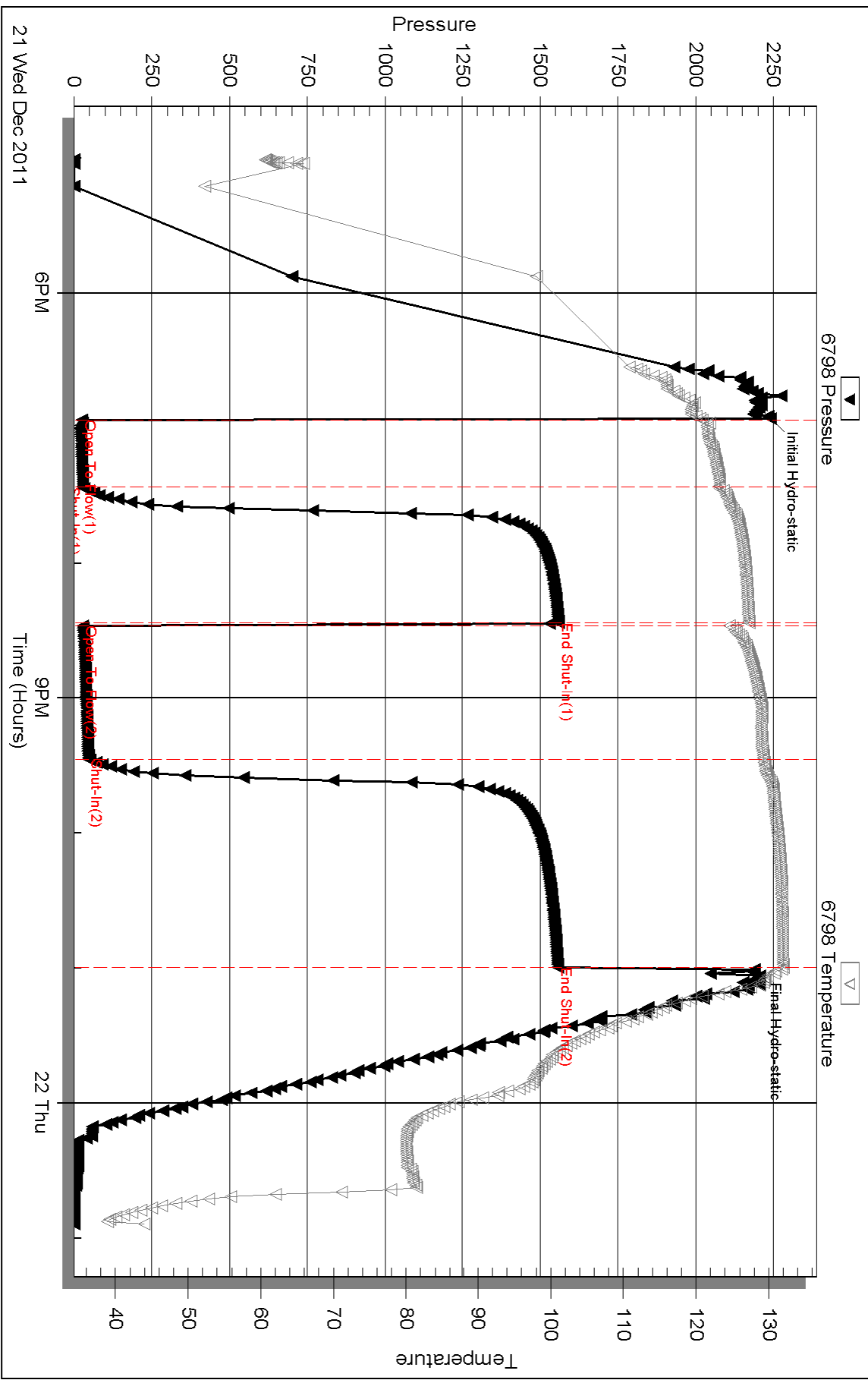
Recovery Table

Length ft	Description	Volume bbl
0.00	850 Feet GIP	0.000
75.00	GOCM 15%G 20%O 65%M	1.052
5.00	Clean Oil	0.070

Total Length: 80.00 ft      Total Volume: 1.122 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



### Pressure vs. Time

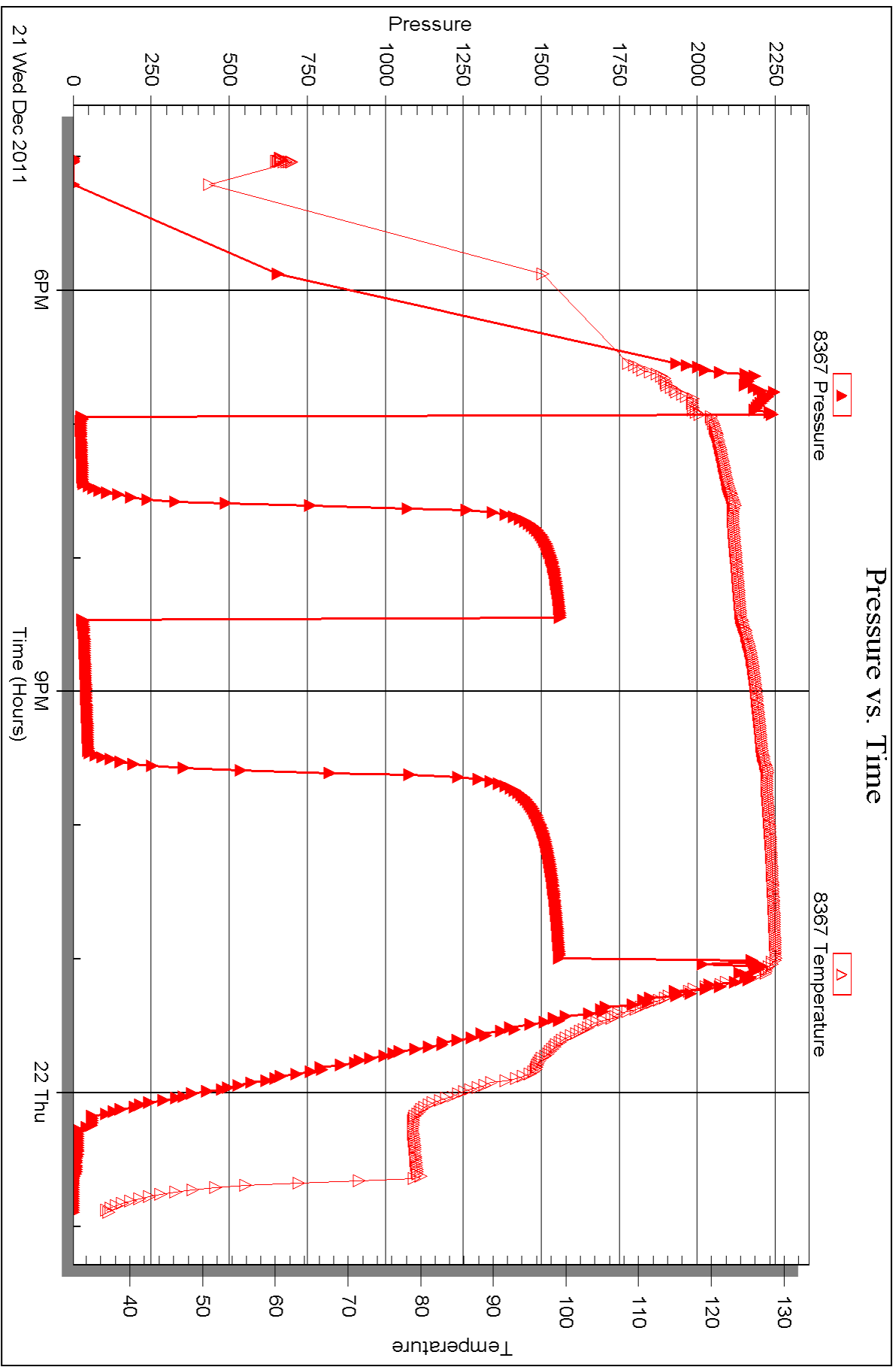


Serial #: 8367

Outside CMX Inc

Hrt Farms #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 44128

Printed: 2011.12.29 @ 14:20:40



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206

ATTN: Ken Lablanc

### **Hirt Farms #1**

### **11-30s-12w Barber,KS**

Start Date: 2011.12.28 @ 02:15:15

End Date: 2011.12.28 @ 10:41:00

Job Ticket #: 44130                      DST #: 5

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

Printed: 2011.12.29 @ 14:19:34

CMX Inc  
11-30s-12w Barber,KS  
Hirt Farms #1  
DST # 5  
Simpson  
2011.12.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita, KS 67206  
 ATTN: Ken Lablanc

**11-30s-12w Barber, KS**

**Hirt Farms #1**

Job Ticket: 44130

**DST#: 5**

Test Start: 2011.12.28 @ 02:15:15

## GENERAL INFORMATION:

Formation: **Simpson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 04:17:30  
 Tester: Leal Cason  
 Time Test Ended: 10:41:00  
 Unit No: 45  
 Interval: **4530.00 ft (KB) To 4555.00 ft (KB) (TVD)**  
 Reference Elevations: 1810.00 ft (KB)  
 Total Depth: 4555.00 ft (KB) (TVD)  
 1802.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

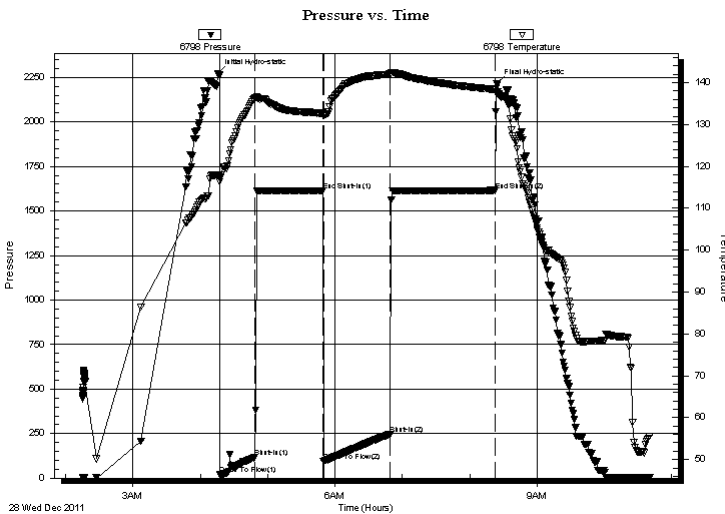
## Serial #: 6798

Inside

Press @ Run Depth: 246.99 psig @ 4531.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.12.28 End Date: 2011.12.28 Last Calib.: 2011.12.29  
 Start Time: 02:15:16 End Time: 10:41:00 Time On Btm: 2011.12.28 @ 04:15:15  
 Time Off Btm: 2011.12.28 @ 08:24:00

TEST COMMENT: IF: Fair Blow, BOB in 28 min  
 IS: No Blow Back  
 FF: Fair Blow, BOB in 25 min  
 FS: No Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.21	117.71	Initial Hydro-static
3	19.11	116.33	Open To Flow (1)
34	116.00	136.31	Shut-In(1)
94	1615.50	132.67	End Shut-In(1)
95	95.54	132.16	Open To Flow (2)
154	246.99	142.06	Shut-In(2)
248	1615.50	138.38	End Shut-In(2)
249	2215.20	137.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
279.00	Water	3.91
93.00	MCW 20%M 80%W	1.30
103.00	SOSWCM 1%O 29%W 70%M	1.44

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

11-30s-12w Barber, KS

## Hirt Farms #1

Job Ticket: 44130

DST#: 5

Test Start: 2011.12.28 @ 02:15:15

### GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:17:30

Time Test Ended: 10:41:00

Interval: **4530.00 ft (KB) To 4555.00 ft (KB) (TVD)**

Total Depth: 4555.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Reference Elevations: 1810.00 ft (KB)

1802.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8367** Outside

Press @ Run Depth: psig @ 4531.00 ft (KB)

Start Date: 2011.12.28

End Date: 2011.12.28

Capacity: 8000.00 psig

Last Calib.: 2011.12.28

Start Time: 02:15:16

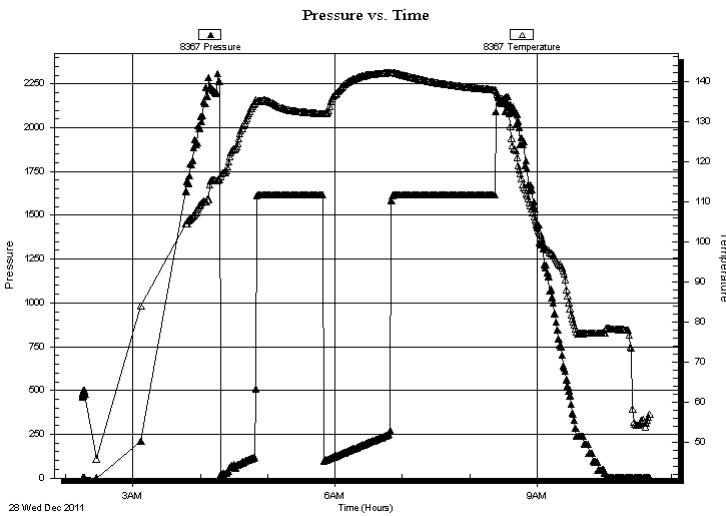
End Time: 10:40:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 28 min  
IS: No Blow Back  
FF: Fair Blow , BOB in 25 min  
FS: No Blow back

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

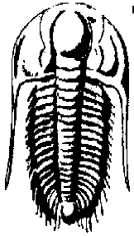
### Recovery

Length (ft)	Description	Volume (bbl)
279.00	Water	3.91
93.00	MCW 20%M 80%W	1.30
103.00	SOSWCM 1%O 29%W 70%M	1.44

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 44130      **DST#: 5**  
Test Start: 2011.12.28 @ 02:15:15

**Tool Information**

Drill Pipe:	Length: 4527.00 ft	Diameter: 3.80 inches	Volume: 63.50 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 63.50 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4530.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 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			4508.00	
Hydraulic tool	5.00			4513.00	
Jars	5.00			4518.00	
Safety Joint	2.00			4520.00	
Packer	5.00			4525.00	27.00 Bottom Of Top Packer
Packer	5.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	6798	Inside	4531.00	
Recorder	0.00	8367	Outside	4531.00	
Perforations	21.00			4552.00	
Bullnose	3.00			4555.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita, KS 67206  
ATTN: Ken Lablanc

**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
Job Ticket: 44130      **DST#: 5**  
Test Start: 2011.12.28 @ 02:15:15

## Mud and Cushion Information

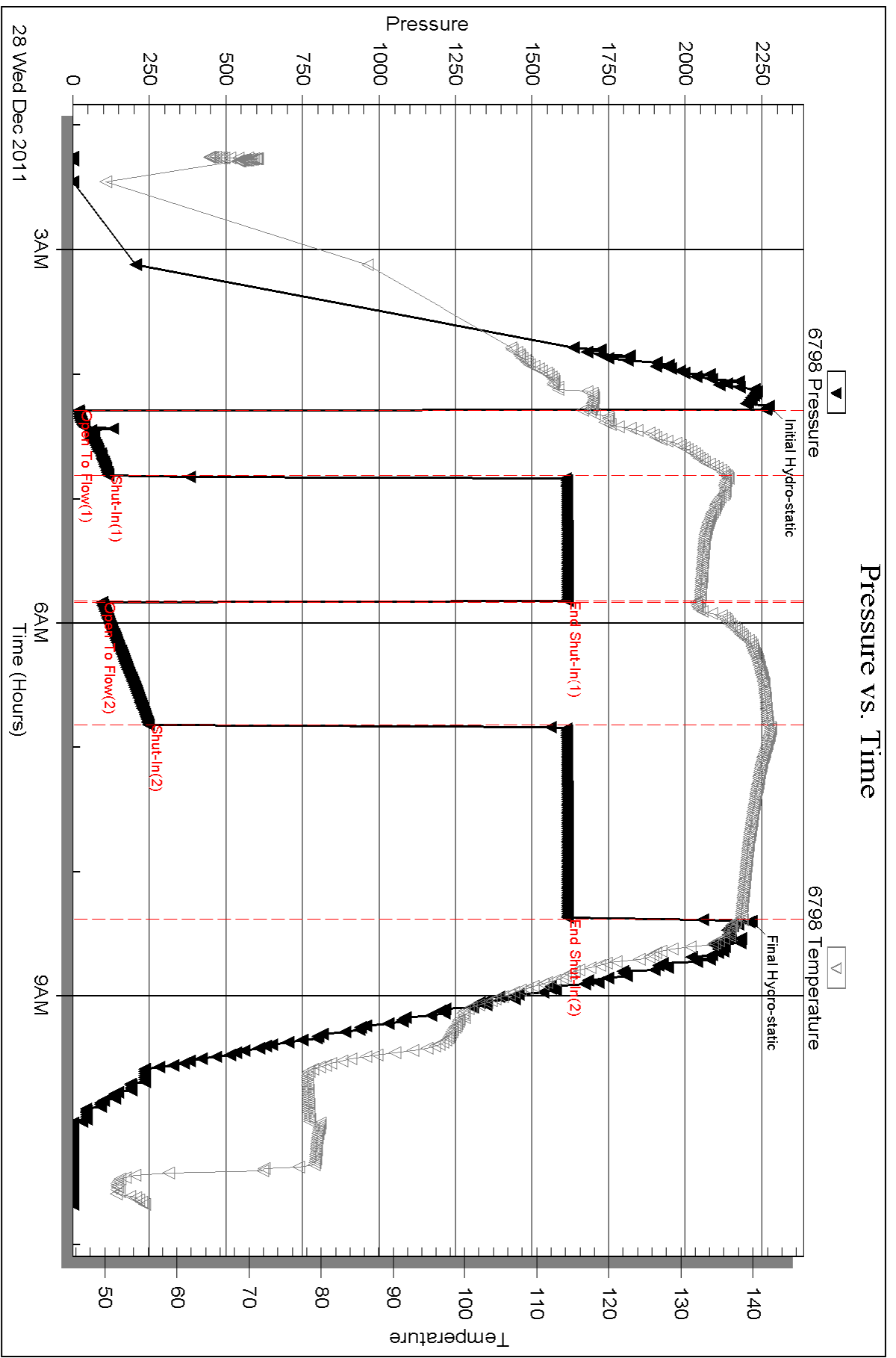
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	80000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
279.00	Water	3.914
93.00	MCW 20%M 80%W	1.305
103.00	SOSWCM 1%O 29%W 70%M	1.445

Total Length: 475.00 ft      Total Volume: 6.664 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW was .17 @ 40 degrees



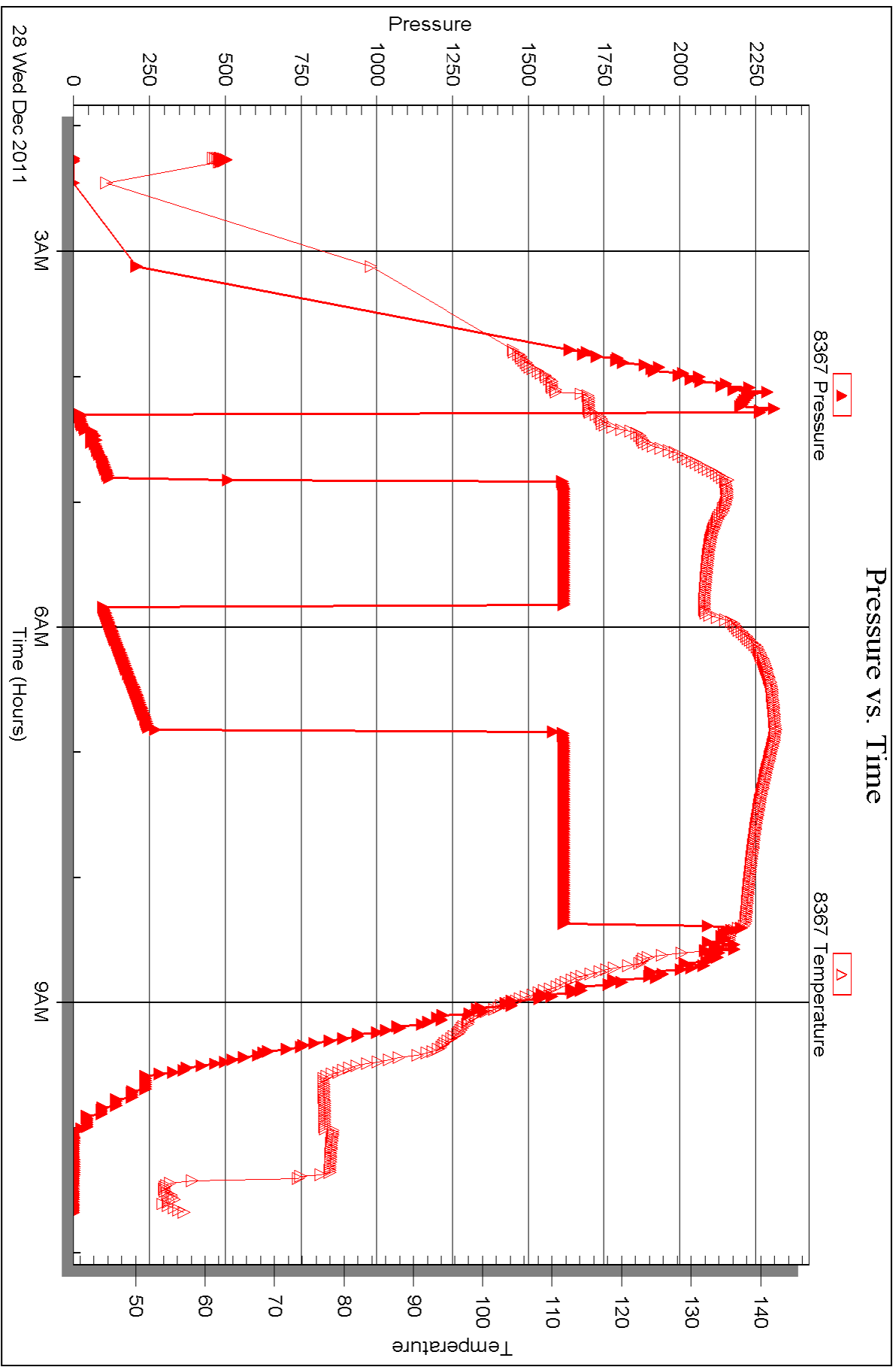


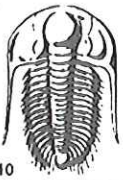
Serial #: 8367

Outside CMX Inc

Hrt Farms #1

DST Test Number: 5





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 15 2011

## Test Ticket

NO. 46335

BY: \_\_\_\_\_

Well Name & No. Herb Farms 1 Test No. 1 Date 12-14-11  
 Company CMX Elevation 1802 KB 1810 GL \_\_\_\_\_  
 Address 1700 N. Waterfront Pkwy bld 300B, Wichita KS, 67206  
 Co. Rep / Geo. Ken Lablane Rig Duke 10  
 Location: Sec. 11 Twp. 30s Rge. 12w Co. Barber State KS

Interval Tested 2352-2403 Zone Tested Council Grove  
 Anchor Length 51' Drill Pipe Run 2145 Mud Wt. 9.8  
 Top Packer Depth 2347 Drill Collars Run 186 Vis 88  
 Bottom Packer Depth 2352 Wt. Pipe Run \_\_\_\_\_ WL 5.7  
 Total Depth 2403 Chlorides 82,000 ppm System LCM \_\_\_\_\_  
 Blow Description IF-3 1/2" blow  
ISI - No blow back  
PF - 3" blow  
FSI - No blow back

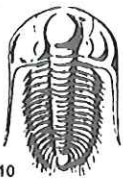
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>GVSOCM</u>	<u>5</u>	<u>5</u>	<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 91° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1232</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>2:45 pm</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>3:37 pm</u>
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>5:33 pm</u>
(D) Initial Shut-In <u>78</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:33 pm</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:30 pm</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>50 RI 70</u>	Comments _____
(G) Final Shut-In <u>75</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1215</u>	<input type="checkbox"/> Straddle _____	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1520</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1520</u>	

Approved By \_\_\_\_\_ Our Representative Cody Blue

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 20 2011

## Test Ticket

NO. 46336

BY: \_\_\_\_\_

Well Name & No. ~~Hart~~ <sup>Hirt</sup> Farms 1 Test No. 2 Date 12-16-11  
 Company CMX Inc Elevation 1802 KB 1810 GL  
 Address 1700 N. Wichita KS, 67206  
 Co. Rep / Geo. Ken Rig Duke 10  
 Location: Sec. 11 Twp. 30s Rge. 12w Co. Barber State KS

Interval Tested 2924-2940 Zone Tested Tarkio Sand  
 Anchor Length 16' Drill Pipe Run 2740 Mud Wt. 88  
 Top Packer Depth 2919 Drill Collars Run 186' Vis 73  
 Bottom Packer Depth 2924 Wt. Pipe Run — WL —  
 Total Depth 2940 Chlorides 3700 ppm System LCM —

Blow Description IF-6" blow  
 ISI- No blow back  
 FF-4" blow  
 FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
10'	Mud, oil scum			100	

Rec Total 10' BHT 98° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1410  Test 1125'  
 (B) First Initial Flow 14  Jars 250'  
 (C) First Final Flow 18  Safety Joint 75'  
 (D) Initial Shut-In 87  Circ Sub \_\_\_\_\_  
 (E) Second Initial Flow 16  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow 19  Mileage 60 RT 70  
 (G) Final Shut-In 77  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1318  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

T-On Location 2:13 am  
 T-Started 2:38 am  
 T-Open 4:11 am  
 T-Pulled 6:11 am  
 T-Out 8:07 am

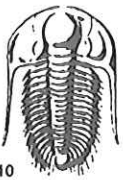
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Day Standby 24 hr + 434  
 Accessibility \_\_\_\_\_  
 Sub Total 1520

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 158.37  
 Total 1678.37  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Cody Bloodorn

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 20 2011

## Test Ticket

NO. 46337

BY: \_\_\_\_\_

Well Name & No. Hirt Farms 1 Test No. 3 Date 12-19-11  
 Company CMX Inc. Elevation 1802 KB 1810 GL \_\_\_\_\_  
 Address 1700 N. Wichita KS, 67206  
 Co. Rep / Geo. Ken Leblanc Rig Duke 10  
 Location: Sec. 11 Twp. 30s Rge. 12 w Co. Barber State KS

Interval Tested 4030-4050 Zone Tested KC  
 Anchor Length 20' Drill Pipe Run 4031 Mud Wt. 9.3  
 Top Packer Depth 4025 Drill Collars Run — Vis 69  
 Bottom Packer Depth 4030 Wt. Pipe Run — WL 7.4  
 Total Depth 4050 Chlorides 4200 ppm System LCM —  
 Blow Description IF-6 1/4" blow  
ISI- No blow back  
FF- 8 1/4" blow  
FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>90'</u>	<u>GVSOEWM</u>	<u>5</u>	<u>5</u>	<u>30</u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90' BHT 123° Gravity — API RW .2 @ 54 °F Chlorides 55000 ppm

(A) Initial Hydrostatic <u>2075</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>5:22 am</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>6:52 am 6:57</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>9:09 am</u>
(D) Initial Shut-In <u>1336</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>12:39 am 12:39 pm</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2:19 pm</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>50RT 70'</u>	Comments _____
(G) Final Shut-In <u>1219</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2053</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>11620'</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>11620'</u>	

Approved By \_\_\_\_\_ Our Representative Cody Bloodorn

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 28 2011  
BY: \_\_\_\_\_

## Test Ticket

NO. 44128

Well Name & No. Hirt Farms 1 Test No. 4 Date 12/21/11  
 Company CMX inc Elevation 1815 KB 1802 GL  
 Address 1700 N waterfront PKwy Bldg 300 B Wichita, KS 67206  
 Co. Rep / Geo. Ken LeBlanc Rig Duke 10  
 Location: Sec. 11 Twp. 30S Rge. 12W Co. Barber State KS

Interval Tested 4458 - 4480 Zone Tested Viola  
 Anchor Length 22 Drill Pipe Run 4436 Mud Wt. 9.1  
 Top Packer Depth 4453 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 4458 Wt. Pipe Run 0 WL 7.4  
 Total Depth 4480 Chlorides 3300 ppm System LCM \_\_\_\_\_

Blow Description IF: Fair Blow, BOB in 12 minutes  
FSI: no Blow back  
FF: strong Blow, BOB in 1 minute  
FSI: 1 inch Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>850</u>	<u>GF P</u>				
<u>580</u>	<u>Clean oil</u>	<u>100</u>			
<u>75</u>	<u>GOCM</u>	<u>15</u>	<u>20</u>	<u>65</u>	
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 80 BHT 132° Gravity NIC API RW NIC@ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2241</u>	<input checked="" type="checkbox"/> Test <u>1225-</u>	T-On Location <u>16:15</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250-</u>	T-Started <u>17:00</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75-</u>	T-Open <u>18:56</u>
(D) Initial Shut-In <u>1559</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>22:59</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:53</u>
(F) Second Final Flow <u>46</u>	<input checked="" type="checkbox"/> Mileage <u>(50)</u> <u>70-</u>	Comments _____
(G) Final Shut-In <u>1557</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2189</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1620-</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1620-</u>	

Approved By Ken LeBlanc

Our Representative [Signature]





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 29 2011  
BY: \_\_\_\_\_

## Test Ticket

NO. 44130

Well Name & No. Hirt Farms 1 Test No. 5 Date 12/28/11  
 Company CMX inc Elevation 1815 KB 1802 GL  
 Address 1700 N. Waterfront Pkwy Bldg 300B Wichita, KS 67206  
 Co. Rep / Geo. Ken LeBlanc Rig Duke 10  
 Location: Sec. 11 Twp. 30 S Rge. 12 W Co. Barber State KS

Interval Tested 4530 - 4555 Zone Tested Simpson  
 Anchor Length 25 Drill Pipe Run 4527 Mud Wt. 9.3  
 Top Packer Depth 4525 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 4530 Wt. Pipe Run 0 WL 10.6  
 Total Depth 4555 Chlorides 8500 ppm System LCM \_\_\_\_\_

Blow Description IF: Fair Blow, BOB in 28 minutes  
ISF: NO Blowback  
FF: Fair Blow, BOB in 25 minutes  
FSE: NO Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>103</u>	<u>505 WCM</u>	<u>1</u>	<u>29</u>	<u>70</u>	<u></u>
<u>93</u>	<u>MCW</u>	<u></u>	<u>80</u>	<u>20</u>	<u></u>
<u>279</u>	<u>water</u>	<u></u>	<u>100</u>	<u></u>	<u></u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 475 BHT 138° Gravity N/C API RW .17 @ 40 °F Chlorides 80000 ppm

(A) Initial Hydrostatic	<u>2273</u>	<input checked="" type="checkbox"/> Test	<u>1225</u>	T-On Location	<u>01:00</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>02:15</u>
(C) First Final Flow	<u>116</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>04:17</u>
(D) Initial Shut-In	<u>1615</u>	<input type="checkbox"/> Circ Sub	_____	T-Pulled	<u>08:22</u>
(E) Second Initial Flow	<u>95</u>	<input type="checkbox"/> Hourly Standby	_____	T-Out	<u>10:41</u>
(F) Second Final Flow	<u>247</u>	<input checked="" type="checkbox"/> Mileage	<u>50</u> <u>70<sup>00</sup></u>	Comments	_____
(G) Final Shut-In	<u>1615</u>	<input type="checkbox"/> Sampler	_____	_____	_____
(H) Final Hydrostatic	<u>2215</u>	<input type="checkbox"/> Straddle	_____	<input type="checkbox"/> Ruined Shale Packer	_____

Initial Open	<u>30</u>	<input type="checkbox"/> Extra Packer	_____	<input type="checkbox"/> Extra Copies	_____
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Recorder	_____	Sub Total	<u>0</u>
Final Flow	<u>60</u>	<input type="checkbox"/> Day Standby	_____	Total	<u>1620</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Accessibility	_____	MP/DST Disc't	_____
Sub Total	<u>1620</u>				

Approved By Ken LeBlanc Our Representative [Signature]

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