



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1102093

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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24 S. Lincoln Street  
P.O. Box 31  
Russell, KS 67665-2906

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 129625

Invoice Date: Dec 11, 2011

Page: 1

**Bill To:**  
CMX, Inc.  
1700 N Waterfront Parkway  
Bldg 300, Suite B  
Wichita, KS 67206

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name / or Customer P.O.	Payment Terms	
CMX	Hirt Farms #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Medicine Lodge	Dec 11, 2011	1/10/12

Quantity	Item	Description	Unit Price	Amount
400.00	MAT	Class A Common	16.25	6,500.00
8.00	MAT	Gel	21.25	170.00
14.00	MAT	Chloride	58.20	814.80
422.00	SER	Handling	2.25	949.50
15.00	SER	Mileage	46.42	696.30
1.00	SER	Surface	1,125.00	1,125.00
37.00	SER	Extra Footage	0.95	35.15
30.00	SER	Heavy Vehicle Mileage	7.00	210.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	CEMENTER	David Felio		
1.00	EQUIP OPER	Ron Gilley		
1.00	EQUIP OPER	Adam Miller		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

**\$ 2124.15**

ONLY IF PAID ON OR BEFORE  
**Jan 5, 2012**

Subtotal	10,620.75
Sales Tax	546.39
Total Invoice Amount	11,167.14
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,167.14</b>

# ALLIED CEMENTING CO., LLC. 037853

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
*Medicine Lake, KS*

DATE <i>12-11-11</i>	SEC <i>11</i>	TWP. <i>30s</i>	RANGE <i>12w</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>8:00 PM</i>
LEASE <i>Farms</i>	WELL# <i>1</i>	LOCATION <i>42 E. Embel Rd, 1s, 3 1/2 W, S/S</i>			COUNTY <i>Barber</i>	STATE <i>KS</i>	
OLD OR (NEW) (Circle one)							

CONTRACTOR *Duke #10* OWNER *CMX*

TYPE OF JOB *Surface*  
 HOLE SIZE *1 7/8* T.D. *355* CEMENT  
 CASING SIZE *1 3/8* DEPTH *337 + 13' x 8 3/8* AMOUNT ORDERED *400s class A + 3% occ. + 2% gel*  
 TUBING SIZE *2 1/2* DEPTH  
 DRILL PIPE DEPTH

TOOL DEPTH  
 PRES. MAX *300#* MINIMUM  
 MEAS. LINE SHOE JOINT *N/A*  
 CEMENT LEFT IN CSG. *30'*  
 PERFS.  
 DISPLACEMENT *48K Bbls Fresh H<sub>2</sub>O*

EQUIPMENT

PUMP TRUCK	CEMENTER <i>D. Feltz</i>
# <i>471-302</i>	HELPER <i>R. Gilley</i>
BULK TRUCK	
# <i>421-252</i>	DRIVER <i>A. Miller</i>
BULK TRUCK	
#	DRIVER

HANDLING <i>422</i>	@ <i>2.25</i>	<i>949.50</i>
MILEAGE <i>422/15/11</i>		<i>696.30</i>
TOTAL		<i>9130.60</i>

REMARKS:  
*Pipe on Bttm, Break Line, Pump Spinner, Mix 400s class A - 342 cement, Struct. Dig. w/ Fresh H<sub>2</sub>O, Seg. increase in P.E. Slow Rate, Stop Pump at 48K Bbls dig. Shut in, Cement did Circ.*

SERVICE

DEPTH OF JOB <i>350'</i>		
PUMP TRUCK CHARGE	<i>1125.00</i>	
EXTRA FOOTAGE <i>37</i>	@ <i>.95</i>	<i>35.15</i>
MILEAGE <i>30</i>	@ <i>7.00</i>	<i>210.00</i>
MANIFOLD <i>N/A</i>	@	
<i>Light vehicle 30</i>	@ <i>4.00</i>	<i>120.00</i>
TOTAL		<i>1490.15</i>

CHARGE TO: *CMX inc.*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<i>None</i>	@	_____
	@	_____
	@	_____
	@	_____
	@	_____
TOTAL		_____

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Colby Crawford*  
 SIGNATURE *[Signature]*

SALES TAX (IF Any) \_\_\_\_\_  
 TOTAL CHARGES *10,620.75*  
 DISCOUNT *20%* IF PAID IN 30 DAYS  
*NET 8496.60*



# INVOICE

PO Box 470308  
Fort Worth, TX 76147

Invoice Number: 129743

Invoice Date: Dec 29, 2011

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

Bill To:
CMX, Inc. 1700 N Waterfront Parkway Bldg 300, Suite B Wichita, KS 67206

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
CMX	Hirt Farms# 1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Medicine Lodge	Dec 29, 2011	1/28/12

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
86.00	MAT	Pozmix	8.50	731.00
8.00	MAT	Gel	20.25	162.00
228.00	SER	Handling	2.25	513.00
15.00	SER	Mileage	25.08	376.20
1.00	SER	Rotary Plug	1,250.00	1,250.00
30.00	SER	Heavy Vehicle Mileage	7.00	210.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	CEMENTER	David Felio		
1.00	EQUIP OPER	Adam Miller		
1.00	EQUIP OPER	Matt Thimesch		
1.00	OPER ASSIST	George Wright		

Subtotal	5,507.20
Sales Tax	402.03
Total Invoice Amount	5,909.23
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,909.23</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

**5,909.23**

ONLY IF PAID ON OR BEFORE

**Jan 23, 2012**





## 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



**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

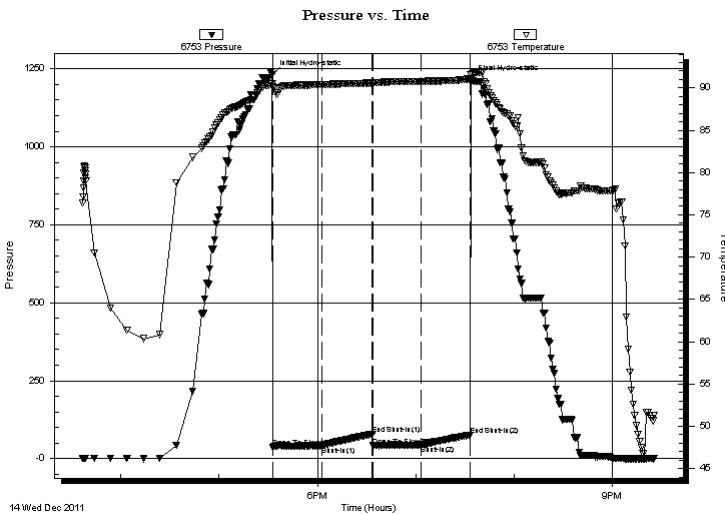
## Serial #: 6753

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

**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
		Total Volume: 31.00 bbl		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:

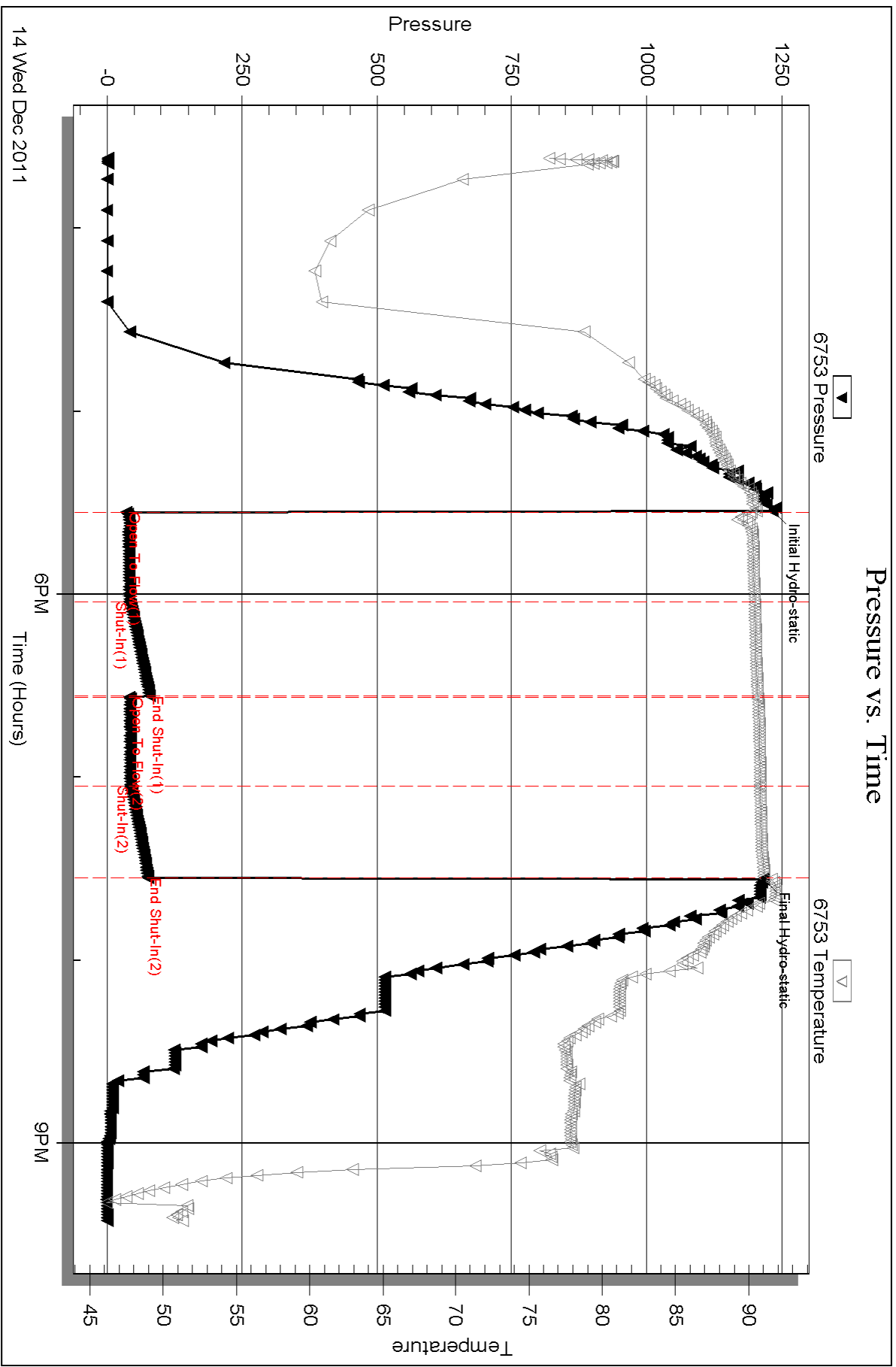
Serial #: 6753

Inside

CMX Inc

Hrt Farms #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46335

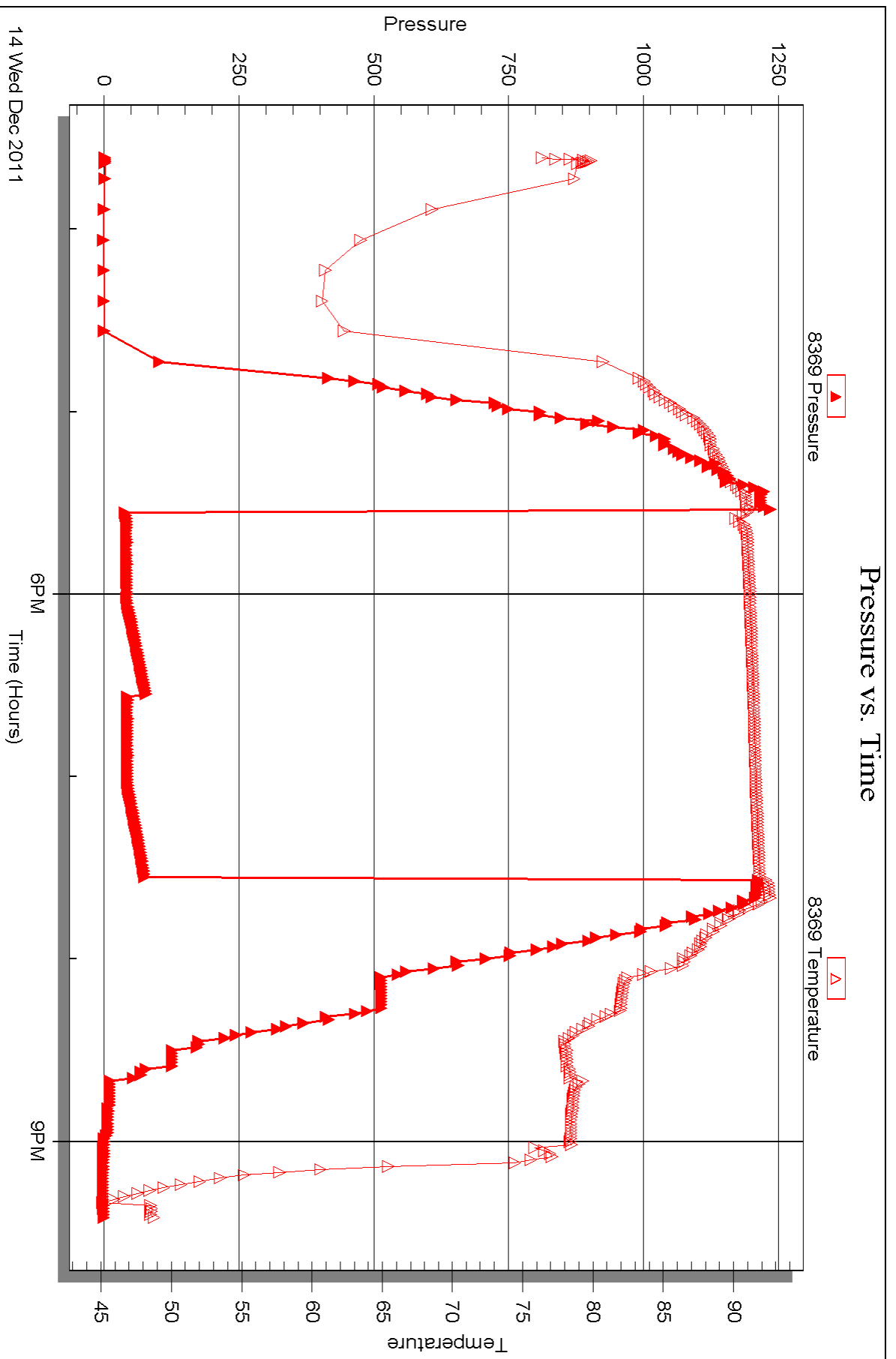
Printed: 2011.12.29 @ 14:22:58

Serial #: 8369

Outside CMX Inc

Hrt Farms #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46335

Printed: 2011.12.29 @ 14:22:59



## 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

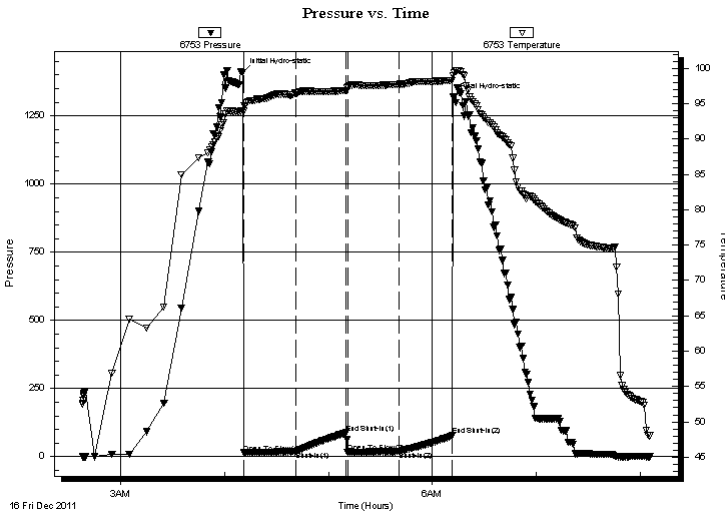
## Serial #: 6753

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:

<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			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  
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: 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			

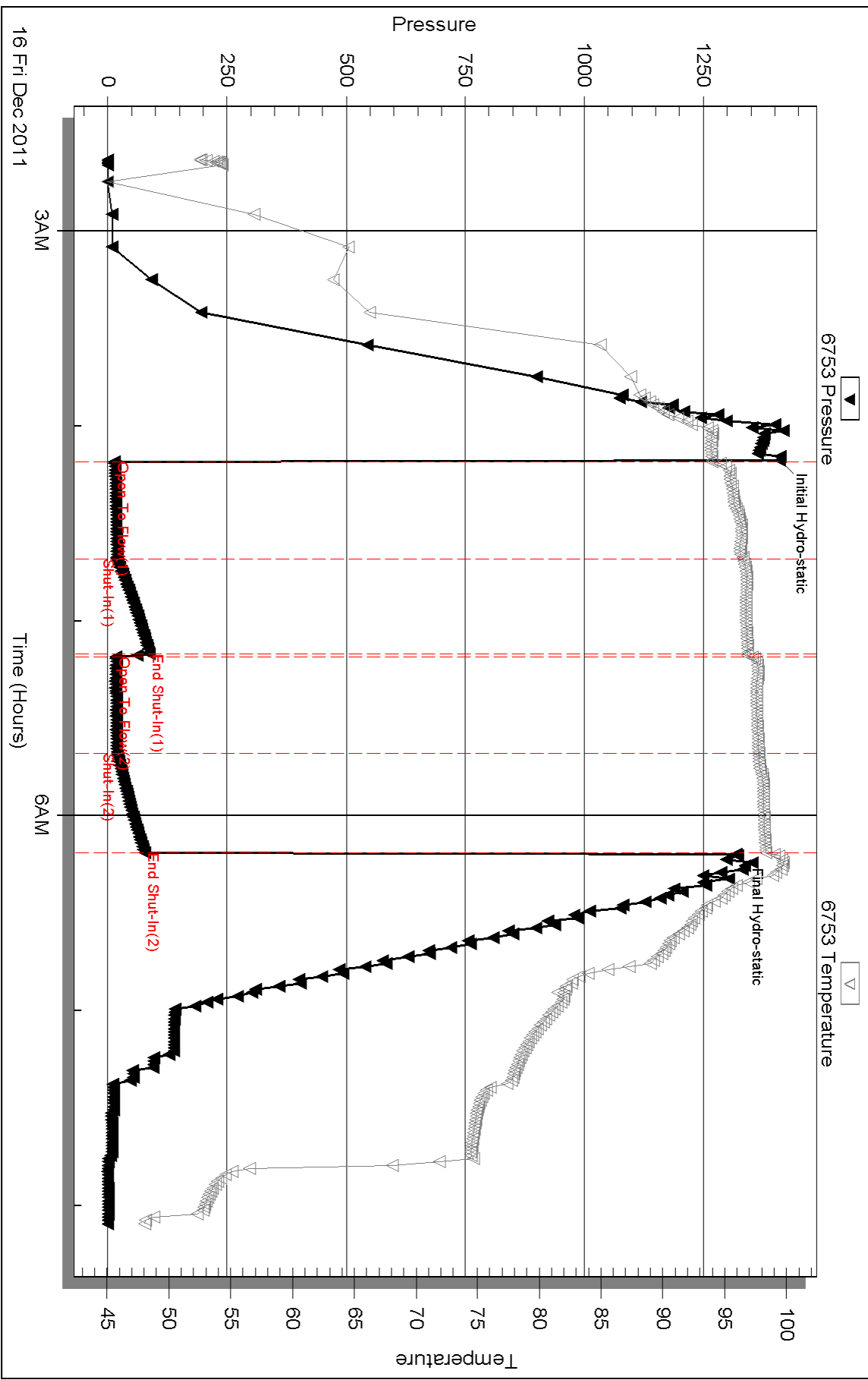
## Recovery Information

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:

### Pressure vs. Time





## 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



**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

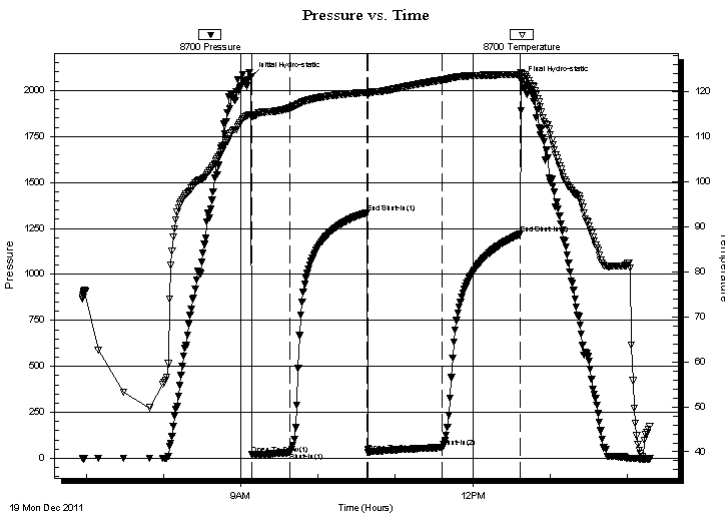
## Serial #: 8700

**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

**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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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

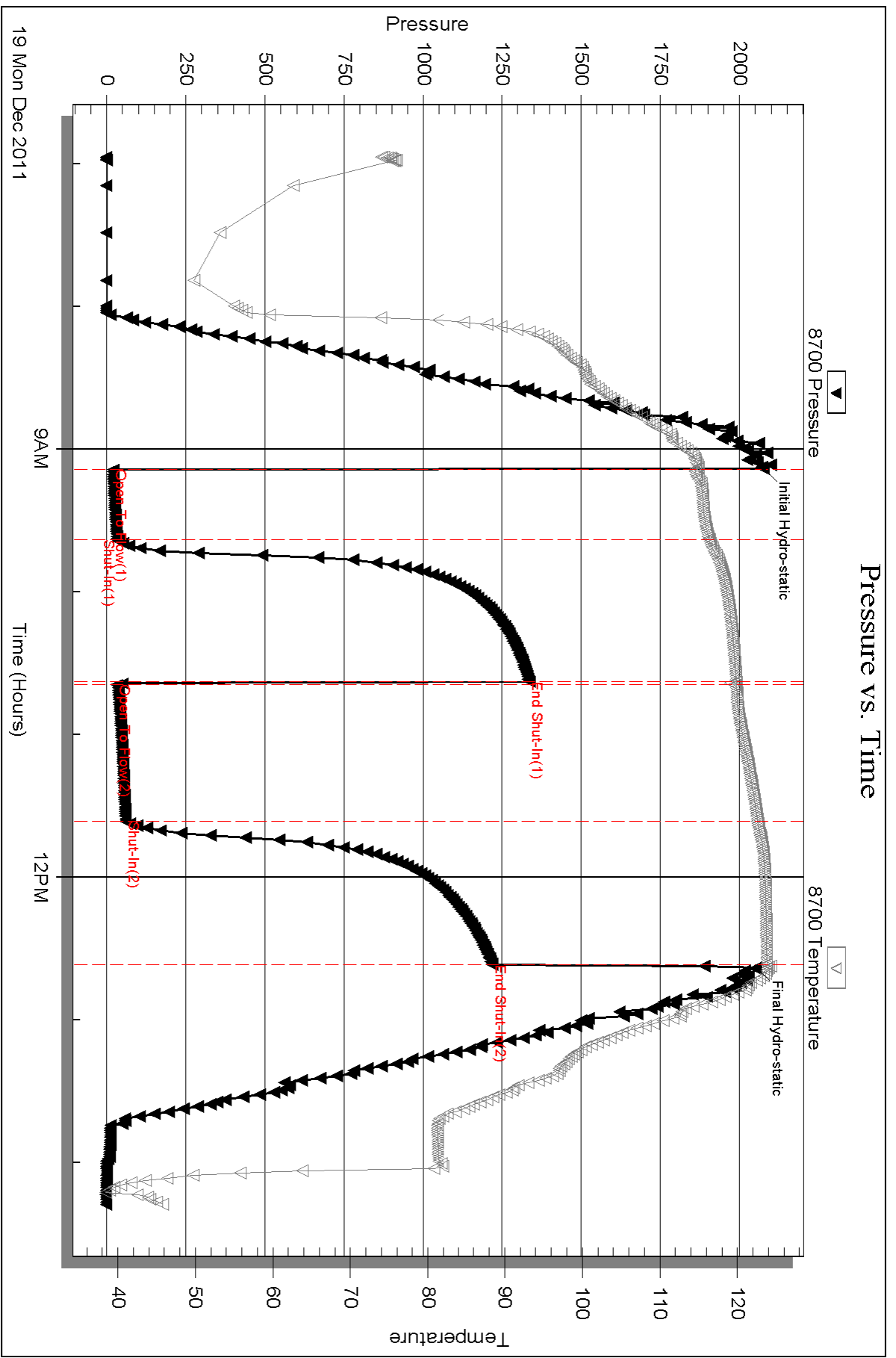
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	55000 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: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





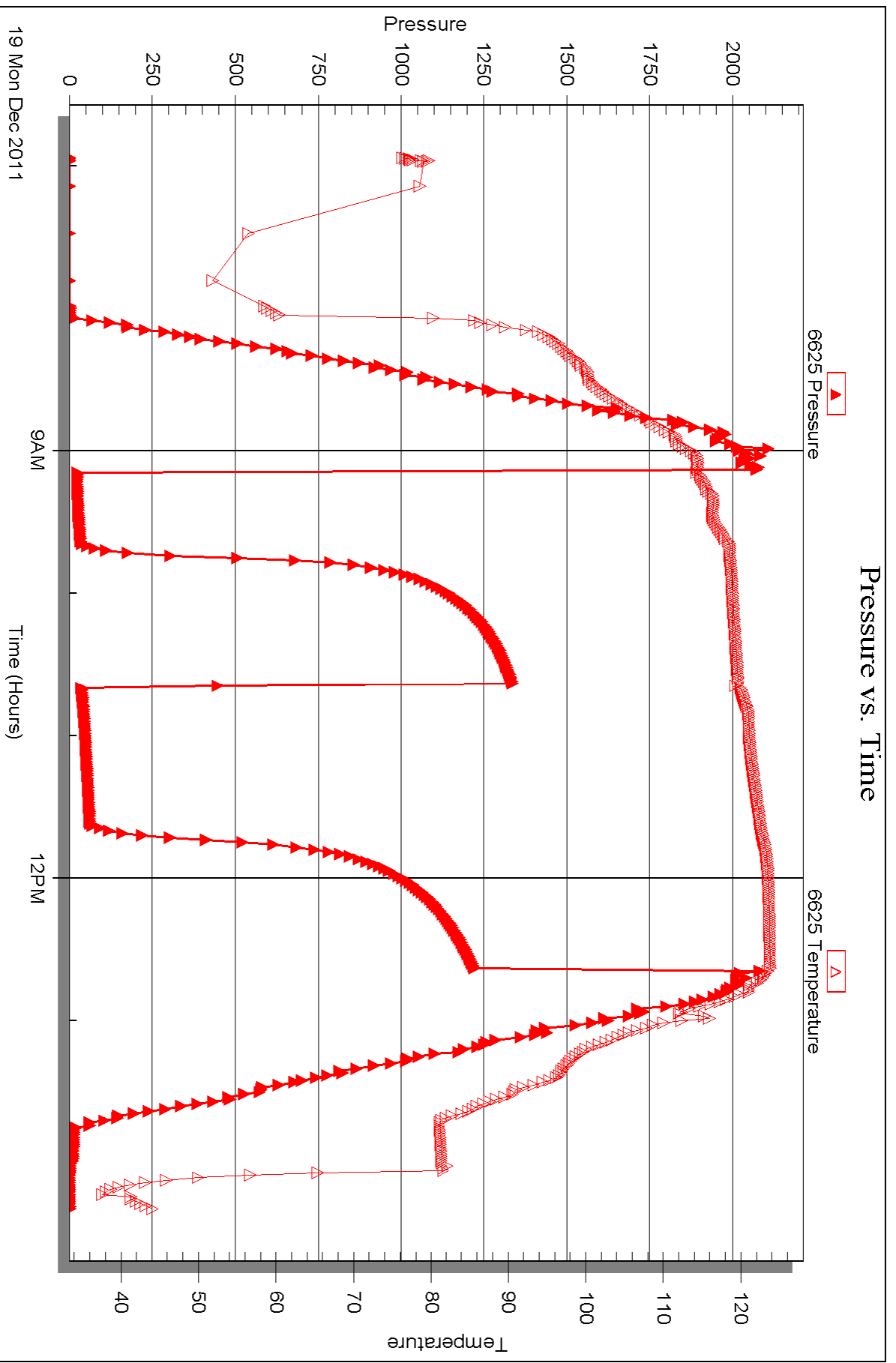
Serial #: 6625

Inside

CMX Inc

Hrt Farms #1

DST Test Number: 3





## 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

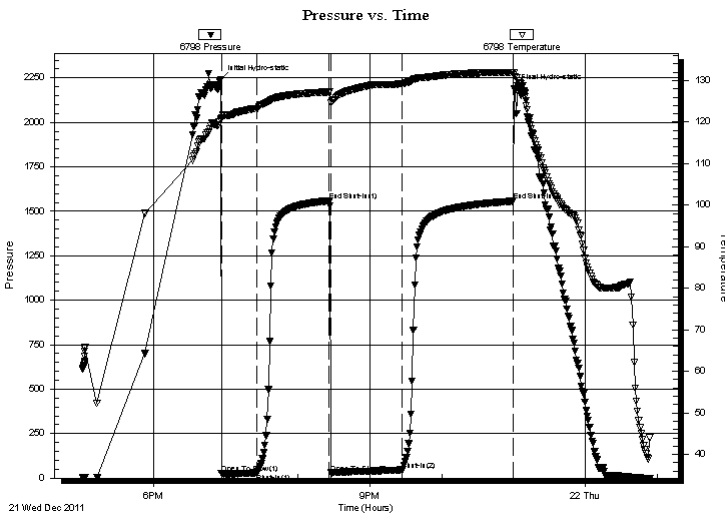
## Serial #: 6798

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

**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
			<u>Total Volume: 62.23 bbl</u>	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:

<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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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

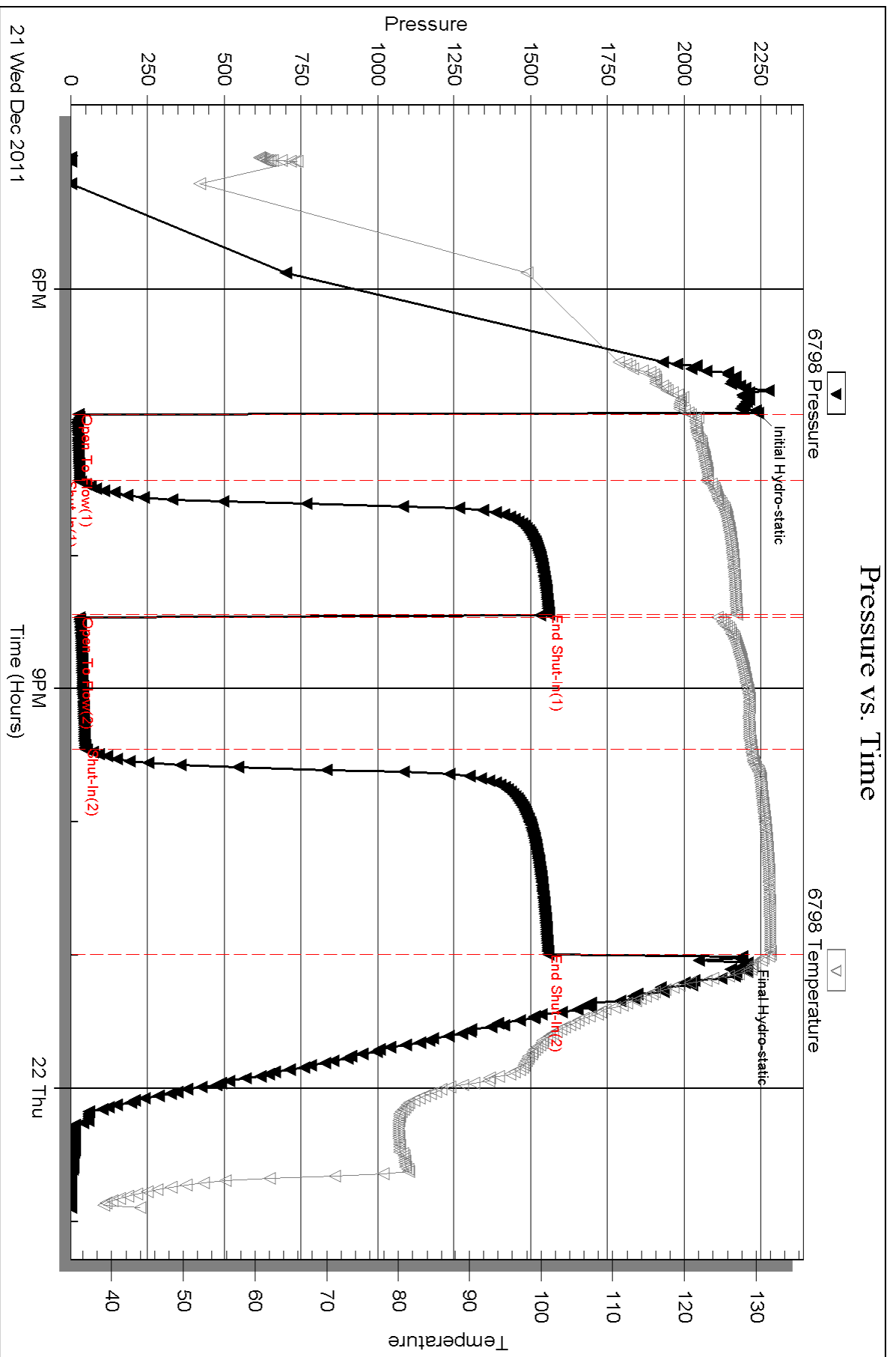
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 0.20 inches			

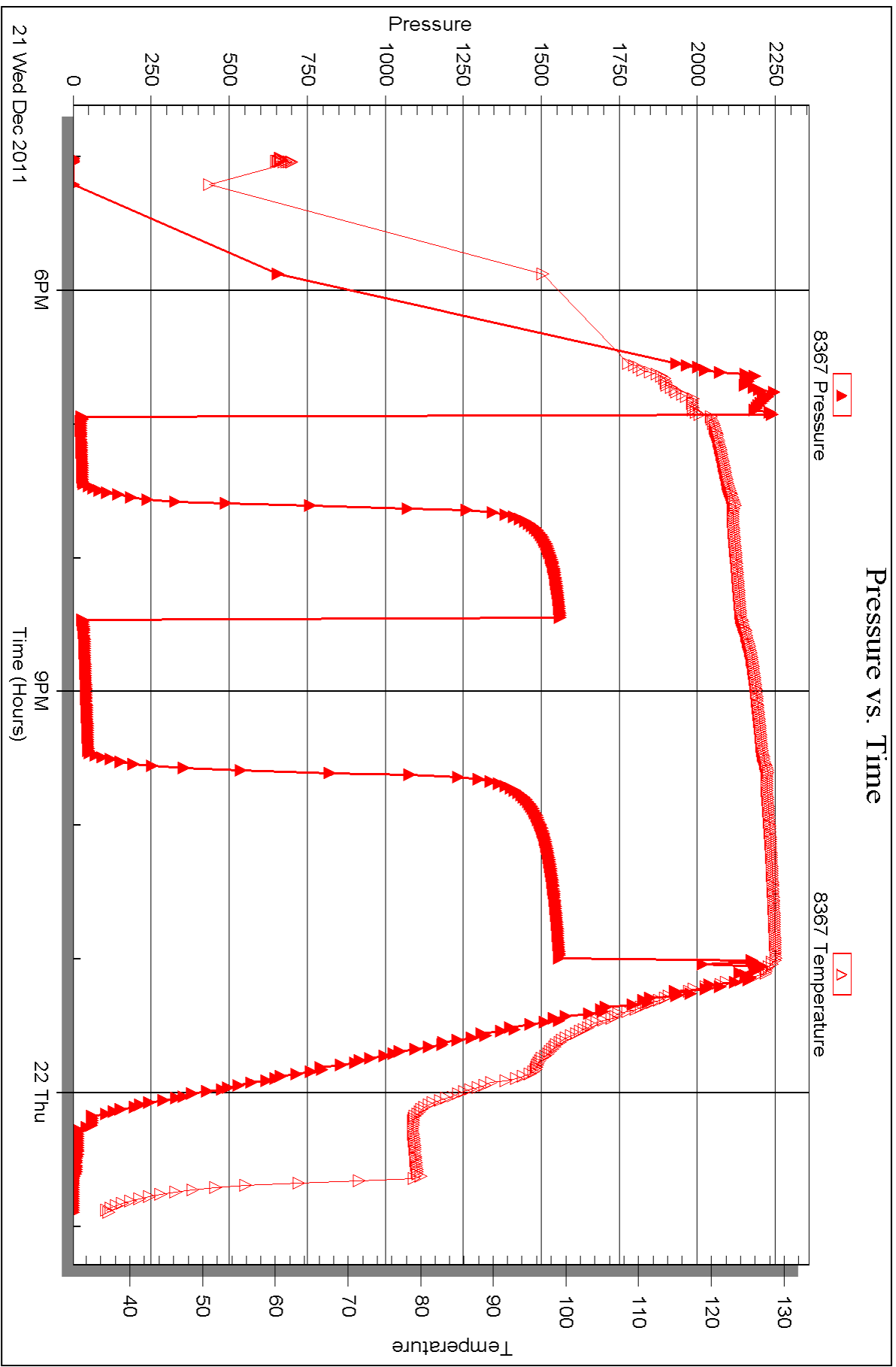
## Recovery Information

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:









## 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



**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

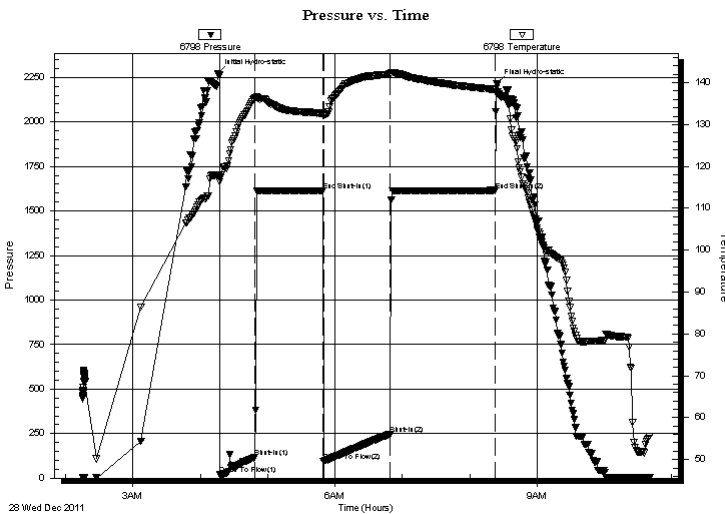
## Serial #: 6798

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

**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
		Total Volume: 63.50 bbl		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:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

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

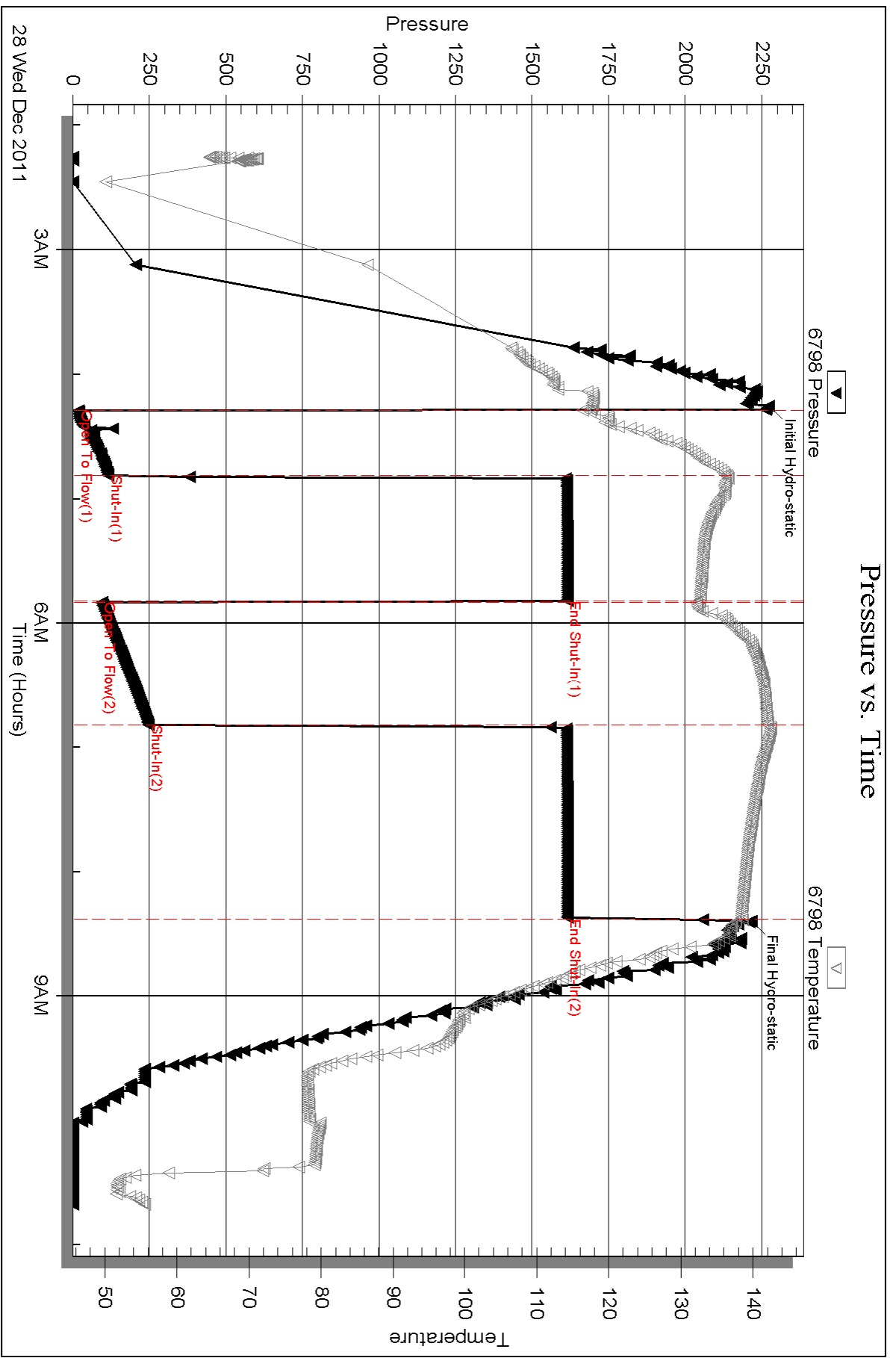
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	80000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: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

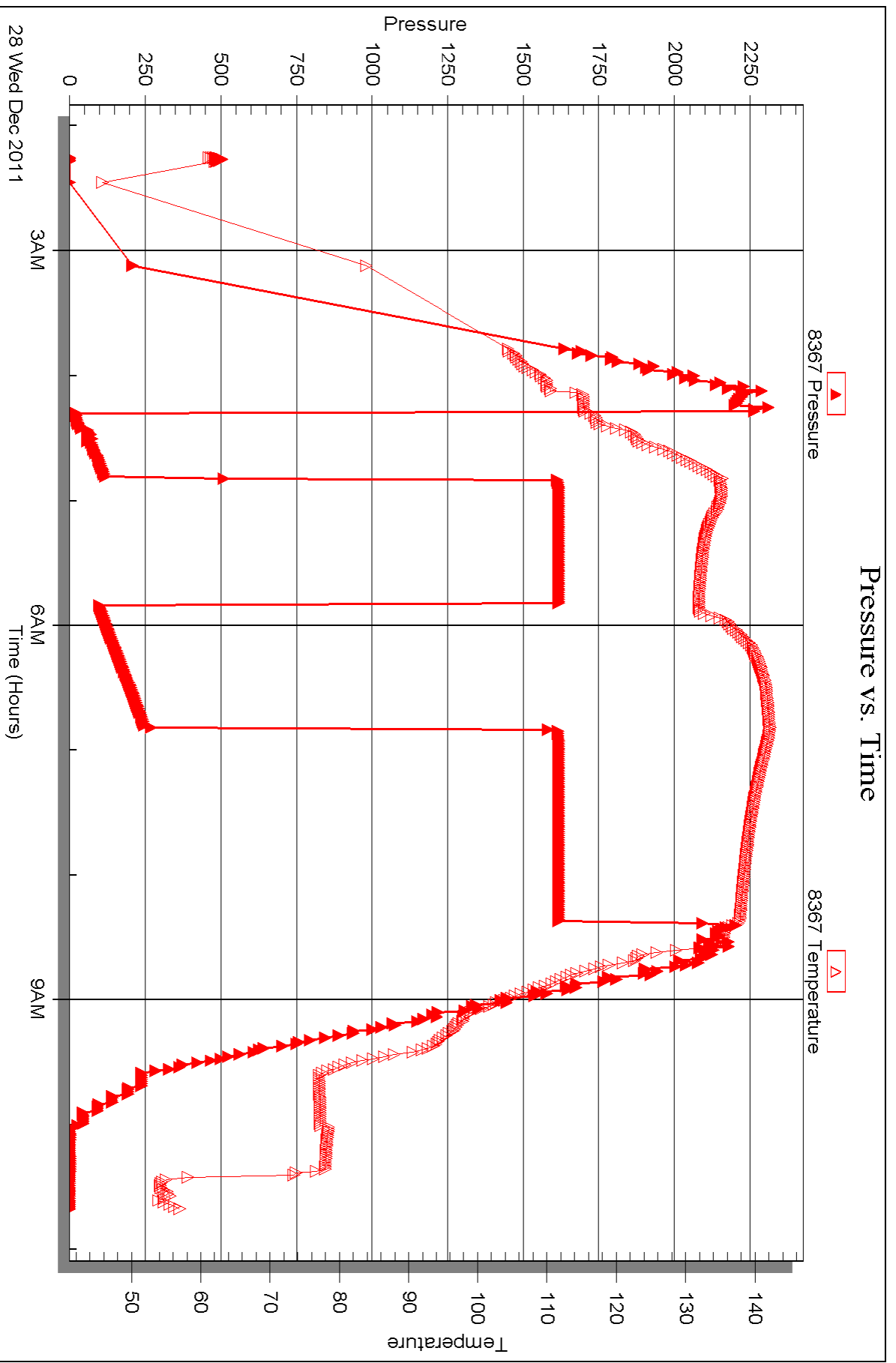


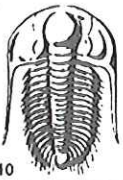
Serial #: 8367

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

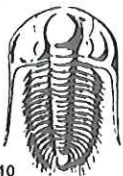
Rec Total 20' BHT 91° Gravity — API RW — @ — °F Chlorides — ppm

(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 RT 70</u>	Comments _____
(G) Final Shut-In <u>75</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1215</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>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
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

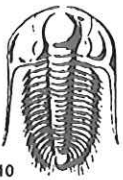
(A) Initial Hydrostatic 1410	<input checked="" type="checkbox"/> Test 1125'	T-On Location 2:13am
(B) First Initial Flow 14	<input checked="" type="checkbox"/> Jars 250'	T-Started 2:38am
(C) First Final Flow 18	<input checked="" type="checkbox"/> Safety Joint 75'	T-Open 4:11am
(D) Initial Shut-In 87	<input type="checkbox"/> Circ Sub	T-Pulled 6:11am
(E) Second Initial Flow 16	<input type="checkbox"/> Hourly Standby	T-Out 8:07am
(F) Second Final Flow 19	<input checked="" type="checkbox"/> Mileage 60RT 70	Comments
(G) Final Shut-In 77	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic 1318	<input type="checkbox"/> Straddle	

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 158.37  
 Total 1678.37  
 MP/DST Disc't  
 Sub Total 1520

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

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# 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>GFP</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 _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 80 BHT 132° Gravity NIC API RW NIC@ NIC F Chlorides NIC ppm  
 (A) Initial Hydrostatic 2241  Test 1225- T-On Location 16:15  
 (B) First Initial Flow 26  Jars 250- T-Started 17:00  
 (C) First Final Flow 29  Safety Joint 75- T-Open 18:56  
 (D) Initial Shut-In 1559  Circ Sub \_\_\_\_\_ T-Pulled 22:59  
 (E) Second Initial Flow 29  Hourly Standby \_\_\_\_\_ T-Out 00:53  
 (F) Second Final Flow 46  Mileage (50) 70- Comments \_\_\_\_\_  
 (G) Final Shut-In 1557  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2189  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1620-  
 Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total \_\_\_\_\_  
 Total 1620-  
 MP/DST Disc't \_\_\_\_\_

Approved By Ken LeBlanc

Our Representative [Signature]

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# 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"/> 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]

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