



KANSAS CORPORATION COMMISSION 1102093  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3532  
Name: CMX, Inc.  
Address 1: 1700 N WATERFRONT PKWY Bldg 300B  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67206 + \_\_\_\_\_  
Contact Person: Leah Kasten  
Phone: ( 316 ) 269-9052  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Ken LeBlanc  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW
- 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 #: \_\_\_\_\_

<u>12/11/2011</u>	<u>12/27/2011</u>	<u>12/28/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23805-00-00

Spot Description: \_\_\_\_\_  
SE NE NW NW Sec. 11 Twp. 30 S. R. 12  East  West

380 Feet from  North /  South Line of Section

1276 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Barber

Lease Name: Hirt Farms Well #: 1

Field Name: Kumberg

Producing Formation: NA

Elevation: Ground: 1802 Kelly Bushing: 1813

Total Depth: 4730 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 350 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 cmf.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 3000 ppm Fluid volume: 220 bbls

Dewatering method used: Hauled to Disposal

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

Operator Name: Bemco

Lease Name: Mac License #: 32613

Quarter NW Sec. 7 Twp. 32 S. R. 11  East  West

County: Barber Permit #: CD-78217

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: Deanna Gantner Date: 11/26/2012





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

Customer ID	Well Name # or Customer P.O.	Payment Terms	
CMX	Hitt Fams #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 Fello		
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**

**2124115**

**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>





PO Box 470308  
Fort Worth, TX 76147

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

# INVOICE

Invoice Number: 129743

Invoice Date: Dec 29, 2011

Page: 1

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

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		

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

**ONLY IF PAID ON OR BEFORE**

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>

**PAID**

**Jan 23, 2012**

# ALLIED CEMENTING CO., LLC. 037866

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

SERVICE POINT: Mechanics

DATE <u>12-29-11</u>	SEC. <u>11</u>	TWR <u>30s</u>	RANGE <u>12 W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>12:30 PM</u>
LEASE <u>HFT Farms</u>	WELL # <u>1</u>	LOCATION <u>42 E. Isabel Rd, Is. W. Sinto Broken</u>		COUNTY	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR Duke #10

TYPE OF JOB Ratney Plug

HOLE SIZE 7 7/8" T.D.

CASING SIZE 13 3/4" DEPTH 350'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2" DEPTH 4650'

TOOL DEPTH

PRES. MAX 500\* MINIMUM —

MEAS. LINE SHOE JOINT —

CEMENT LEFT IN CSG. —

PERFS.

DISPLACEMENT Fresh H<sub>2</sub>O & Drill Mud

OWNER CMX

CEMENT AMOUNT ORDERED 220s x 60:40:4%

COMMON A	<u>132 SK</u>	@ <u>16.25</u>	<u>2145.00</u>
POZ MIX	<u>86 SK</u>	@ <u>8.50</u>	<u>731.00</u>
GEL	<u>8 SK</u>	@ <u>20.25</u>	<u>162.00</u>
CHLORIDE			
ASC			
HANDLING	<u>228</u>	@ <u>2.25</u>	<u>506.25</u>
MILEAGE	<u>228/11/13</u>		<u>376.20</u>
			<b>TOTAL</b> <u>3920.45</u>

EQUIPMENT

PUMP TRUCK CEMENTER D. Felix

# 471-302 HELPER M. Thomasch

BULK TRUCK

# 421-252 DRIVER A. Miller/G. Wright

BULK TRUCK

# DRIVER

REMARKS:

Drill pipe at 4650', circulation, Pump 8 1/2 Bbls Fresh H<sub>2</sub>O spacer, Mix 50% cement, Displ w/ 3 Bbls Fresh & 60 Bbls Mud, Drill Pipe at 750', had hole, Pump Fresh H<sub>2</sub>O spacer, Mix 50% cement, Displ w/ 3 Bbls Fresh & 3 1/2 Bbls Mud, Drill Pipe at 360', had hole, Pump spacer, Mix 50% cement, Displ w/ 3 Bbls Fresh H<sub>2</sub>O, Drill Pipe at 60', Mix 50% cement, Displ w/ 30% Plug, Rathelw/ 30% Plug, Mowebeli w/ 20% Plug

SERVICE

DEPTH OF JOB	<u>4650'</u>		
PUMP TRUCK CHARGE	<u>1250.00</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD	<u>N/A</u>	@	
Light vehicle	<u>30</u>	@ <u>4.00</u>	<u>120.00</u>
			<b>TOTAL</b> <u>1580.00</u>

CHARGE TO: CMX

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.

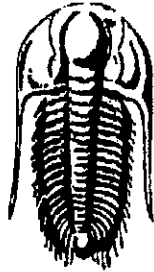
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on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

PRINTED NAME Scott Edwards

SIGNATURE [Signature]

PLUG & FLOAT EQUIPMENT

<u>NONE</u>	@		
	@		
	@		
	@		
	@		
			<b>TOTAL</b> _____
SALES TAX (If Any)			
TOTAL CHARGES		<u>5,500.45</u>	
DISCOUNT	<u>20%</u>		
		<u>NET 4400.36</u>	IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

## 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

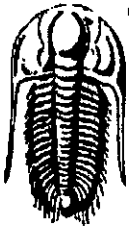
Trilobite Testing, Inc

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

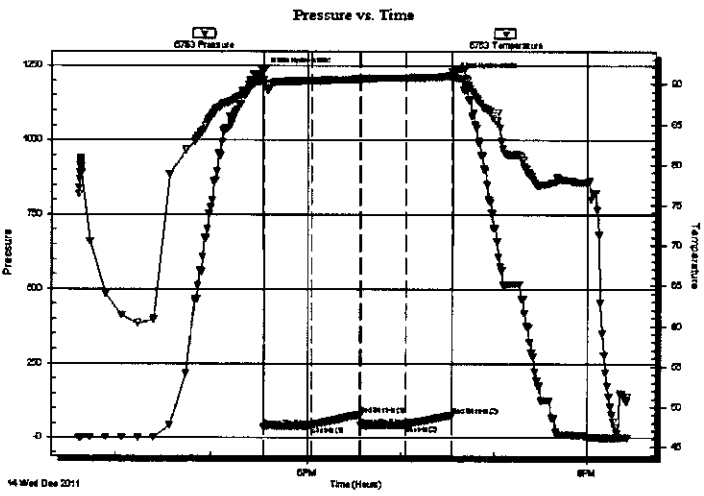
**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
 Job Ticket: 46335      **DST#: 1**  
 Test Start: 2011.12.14 @ 15:37:00

**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@RunDepth: **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**  
    **21:25:29**      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	GVSOCM, 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

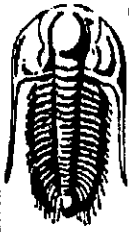
**11-30s-12w Barber,KS**  
**Hirt Farms #1**  
Job Ticket: 46335      **DST#: 1**  
Test Start: 2011.12.14 @ 15:37:00

### 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

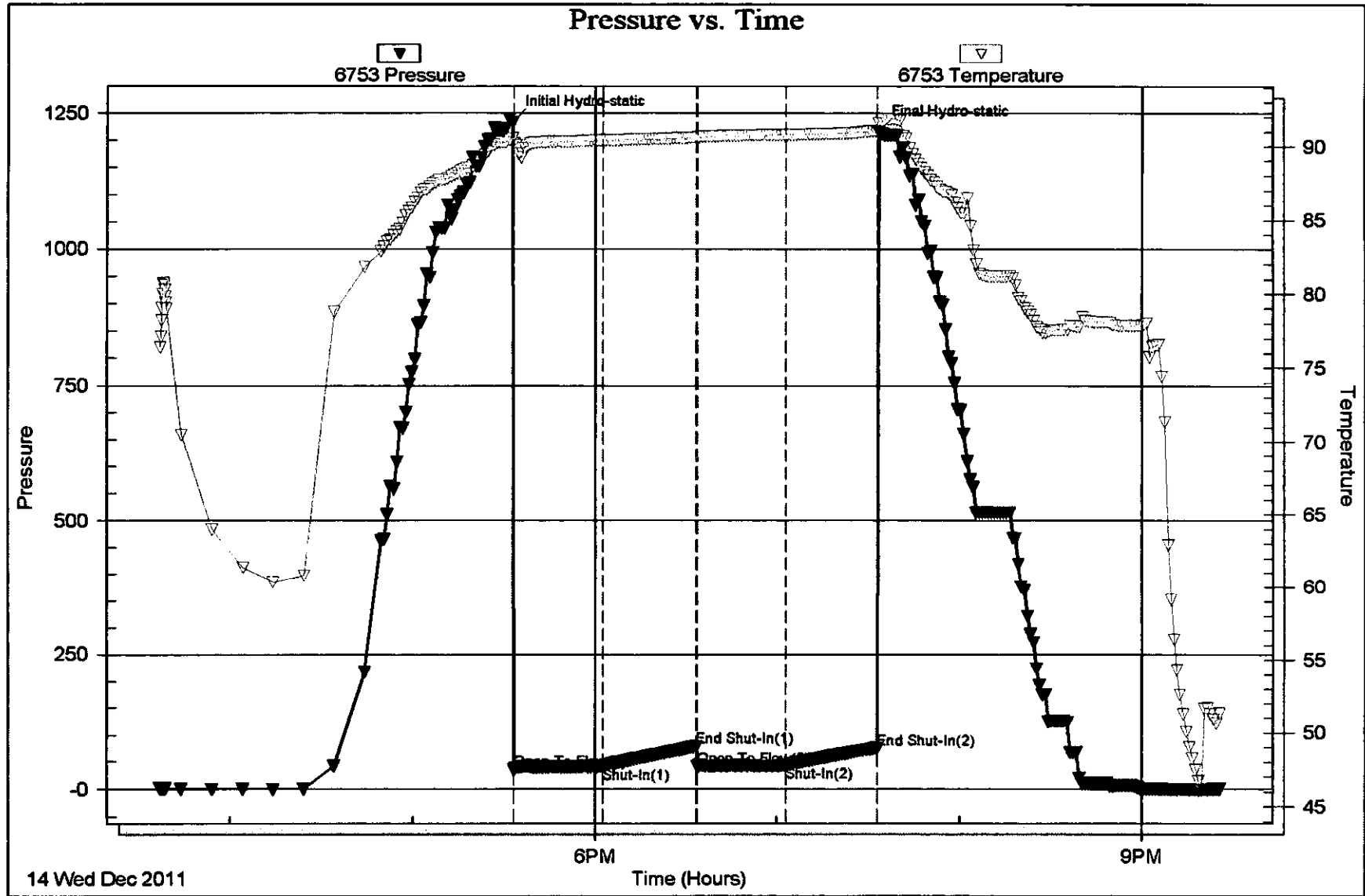
Length ft	Description	Volume bbl
20.00	GVSOCM, 5%O, 5%G, 90%M	0.098

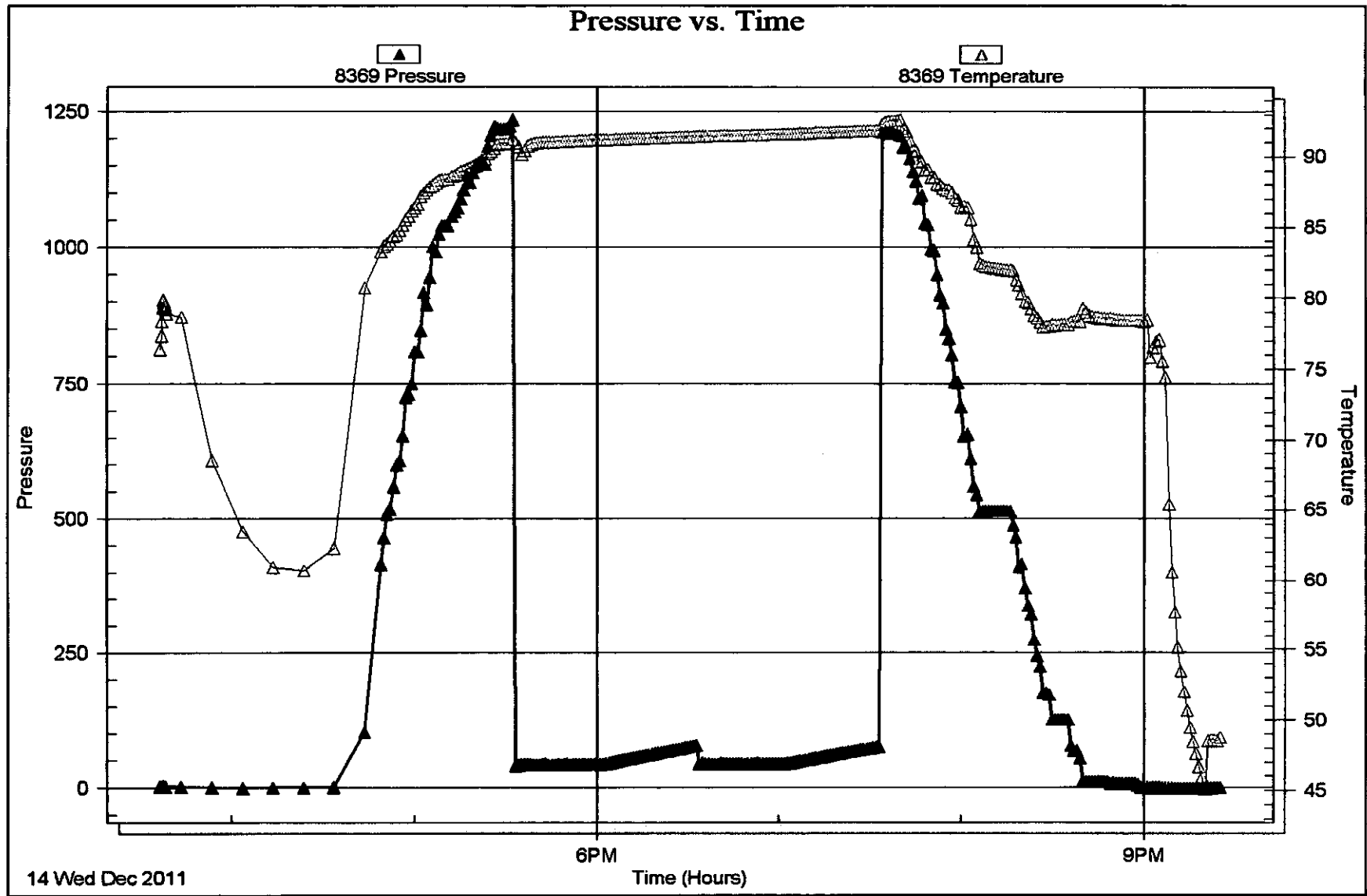
Total Length: 20.00 ft      Total Volume: 0.098 bbl

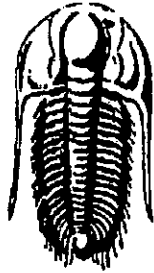
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## 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

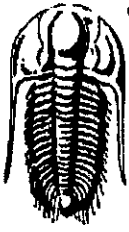
Trilobite Testing, Inc

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

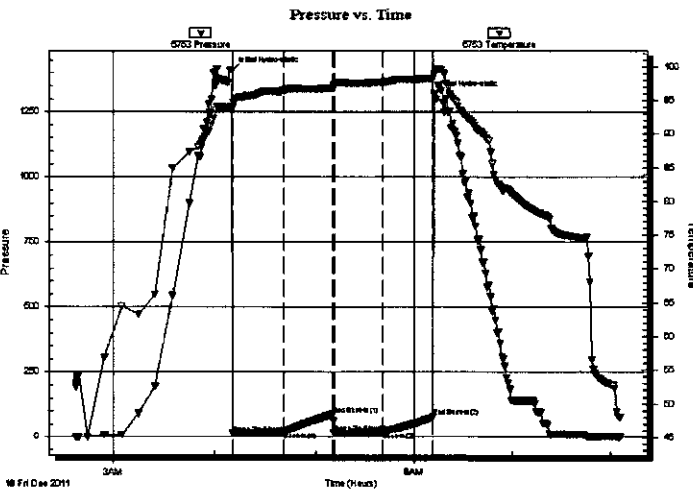
**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
 Job Ticket: 46336 **DST#: 2**  
 Test Start: 2011.12.16 @ 02:38:00

## 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@RunDepth: **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

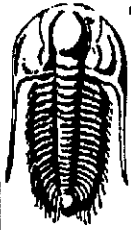
## Recovery

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 Row y  
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
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
<b>Total Tool Length:</b>	<b>44.00</b>				





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Fkwy  
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

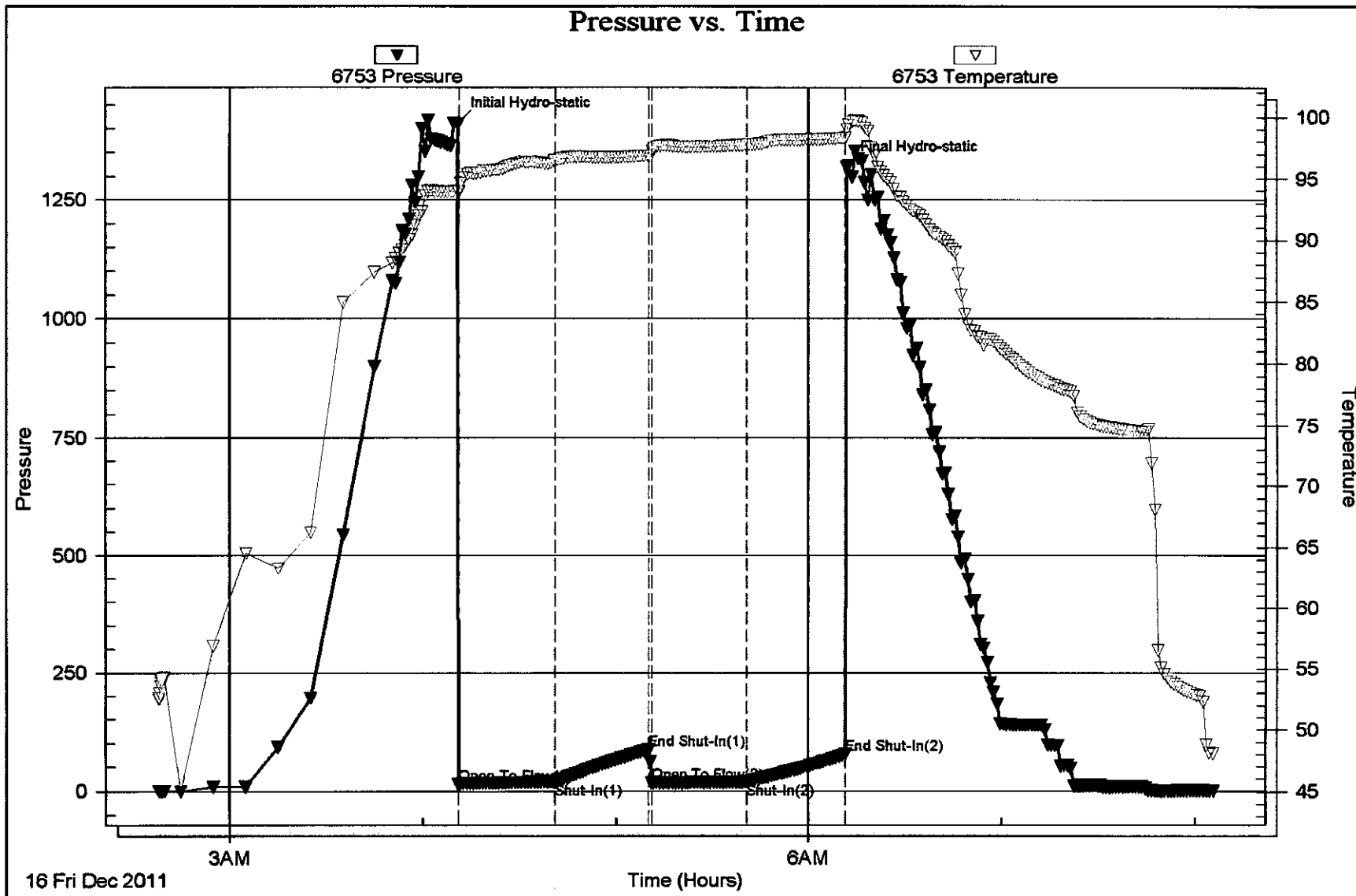
Length ft	Description	Volume bbl
10.00	Mud, Oil scum, 100%Mud	0.049

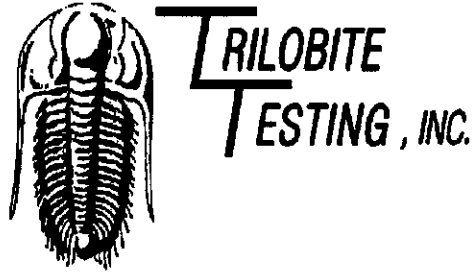
Total Length: 10.00 ft      Total Volume: 0.049 bbl

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

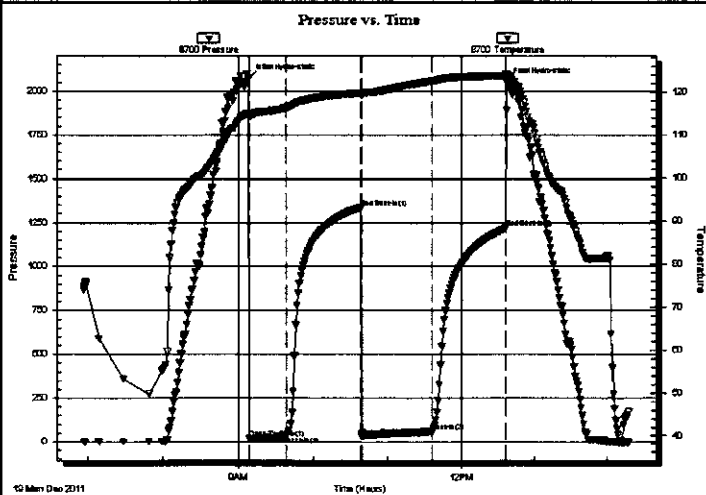
**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
Job Ticket: 46337      **DST#: 3**  
Test Start: 2011.12.19 @ 06:57:00

### 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@RunDepth: 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

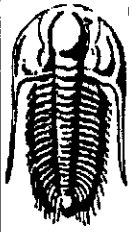
Length (ft)	Description	Volume (bbl)
90.00	GVSOCWM, 5%G, 5%O, 30%W, 60%M	1.26

\* Recovery from multiple tests

### Gas Rates

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





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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
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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

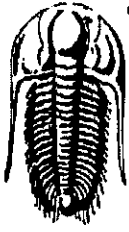
### Tool Information

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:

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



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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**

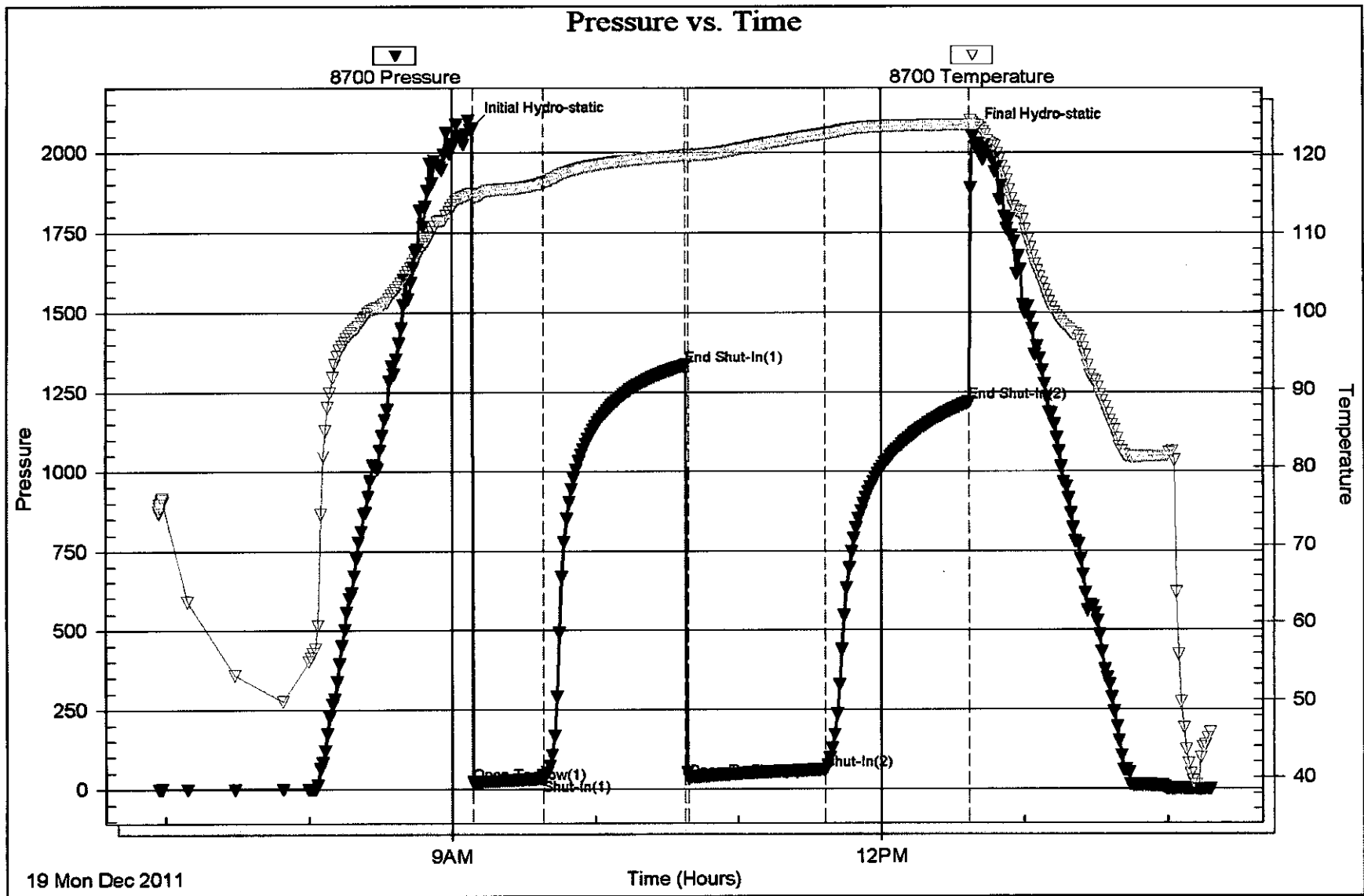
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	55000 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: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

**Recovery Information**

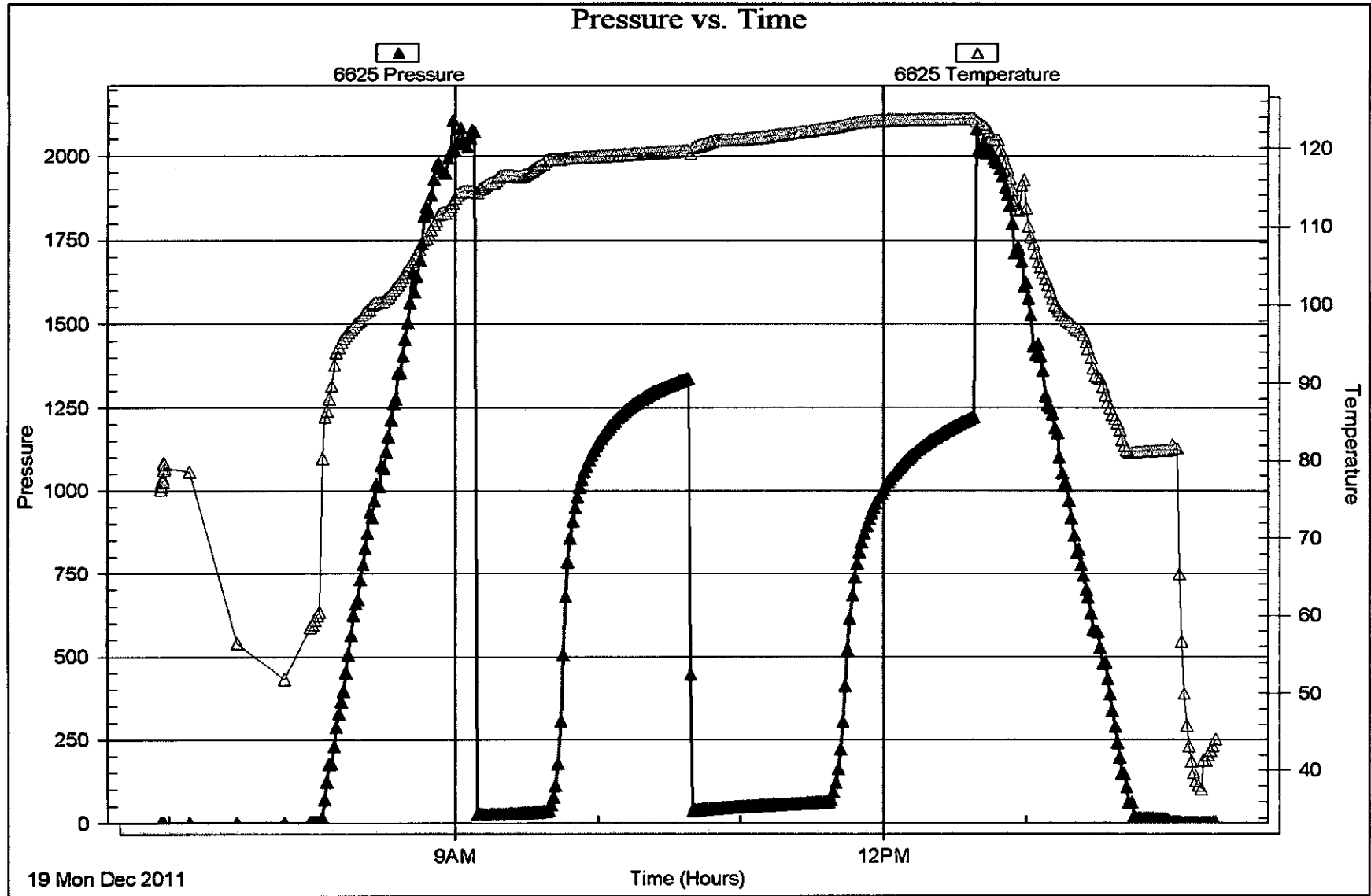
Recovery Table

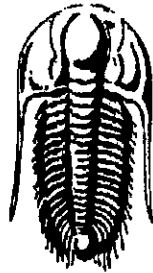
Length ft	Description	Volume bbl
90.00	GVSOCWM, 5%G, 5%O, 30%W, 60%M	1.262

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









**TRILOBITE  
TESTING, INC.**

## 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

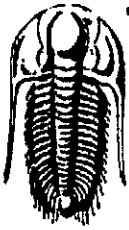
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.29 @ 14:20:37

CMX Inc 11-30s-12w Barber,KS Hirt Farms #1 DST # 4 Viola 2011.12.21



**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**

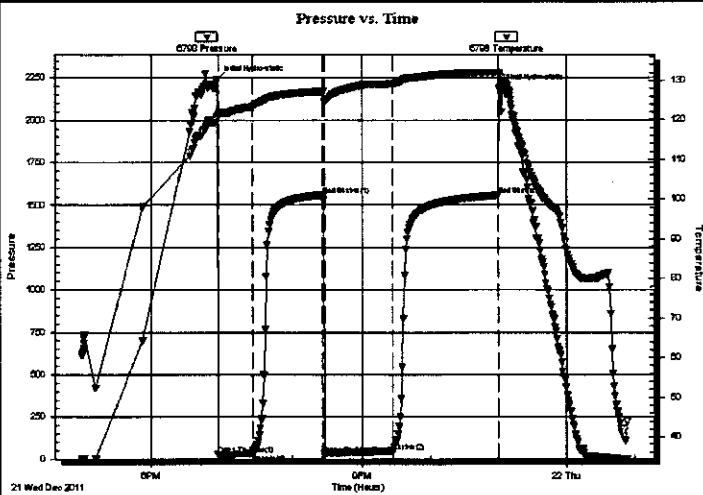
Test Start: 2011.12.21 @ 17:00:31

### GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 18:56:16  
 Time Test Ended: 00:53:46  
 Interval: **4458.00 ft (KB) To 4480.00 ft (KB) (TVD)**  
 Total Depth: **4480.00 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 #: 6798** **Inside**  
 Press@RunDepth: **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

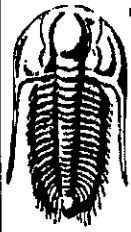
Length (ft)	Description	Volume (bbl)
0.00	850 Feet GIP	0.00
75.00	GOCM 15%G 20%O 65%M	1.05
5.00	Clean Oil	0.07

\* Recovery from multiple tests

### Gas Rates

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





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## 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:

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



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**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:	bbbl		
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

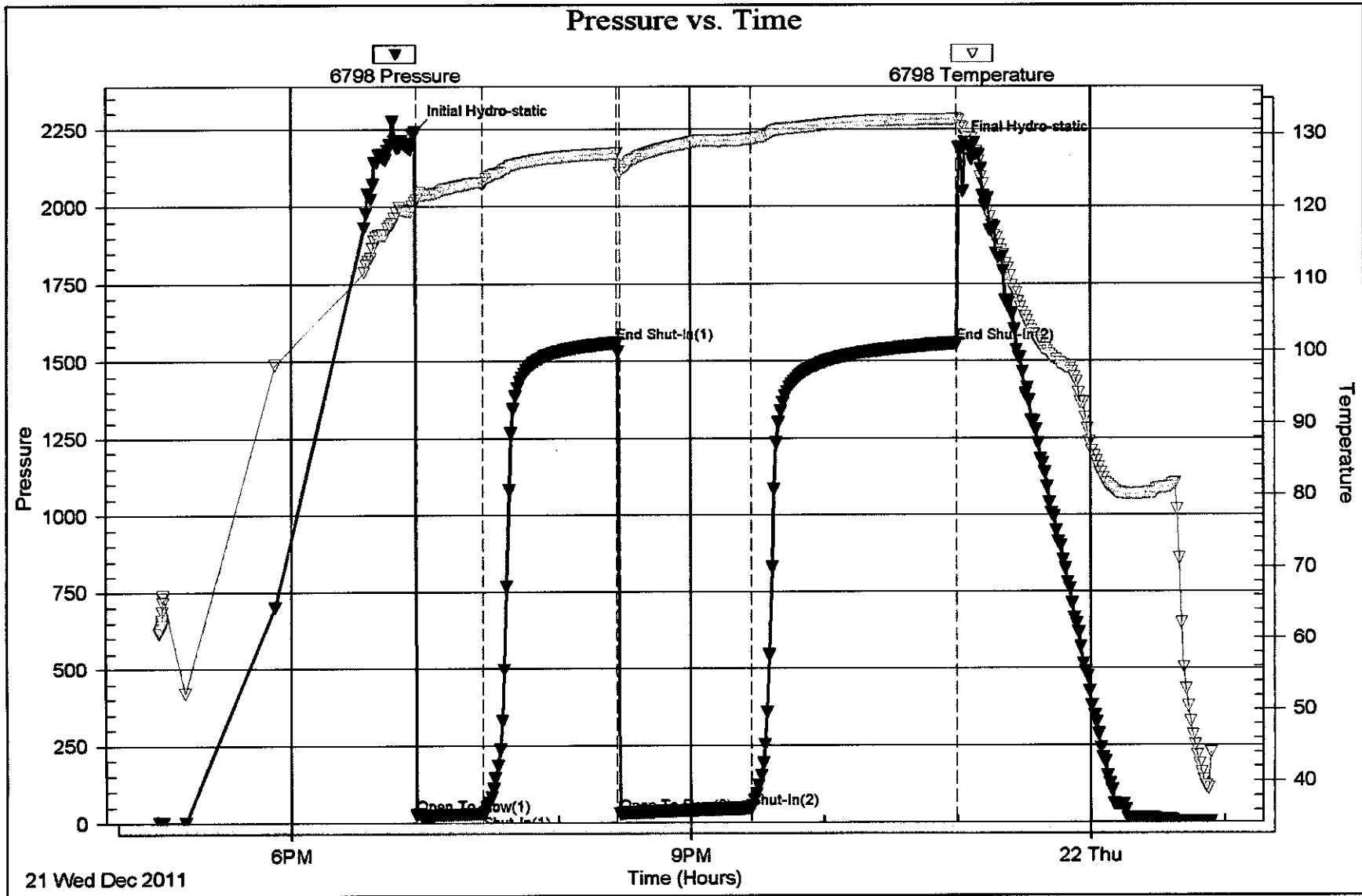
Length ft	Description	Volume bbl
0.00	850 Feet GP	0.000
75.00	GOOM 15%G 20%O 65%M	1.052
5.00	Clean Oil	0.070

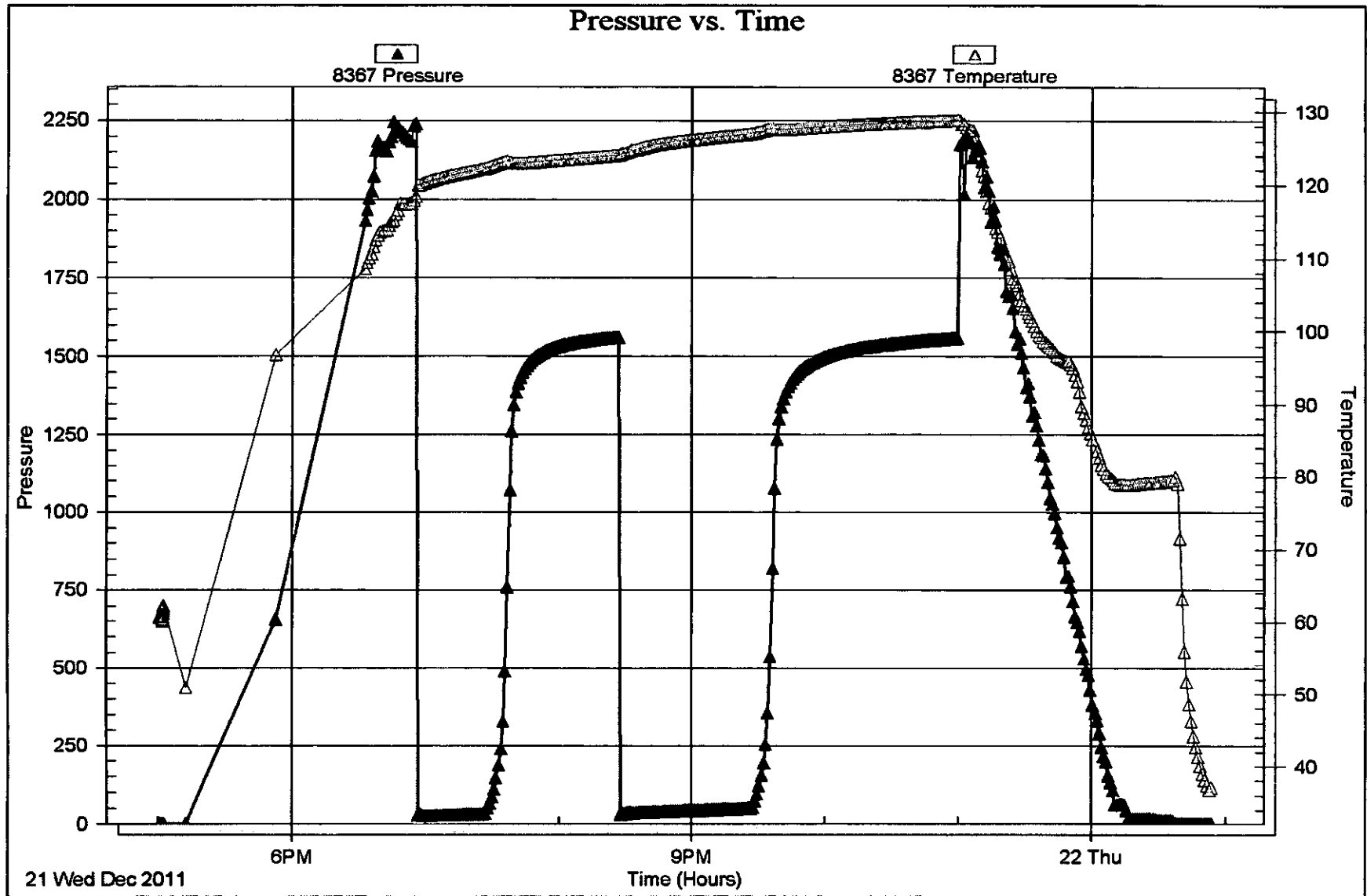
Total Length: 80.00 ft      Total Volume: 1.122 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

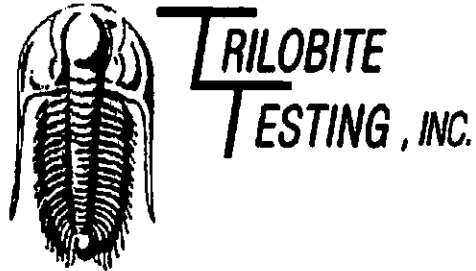
Laboratory Name:      Laboratory Location:

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

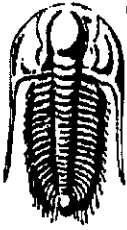
End Date: 2011.12.28 @ 10:41:00

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

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

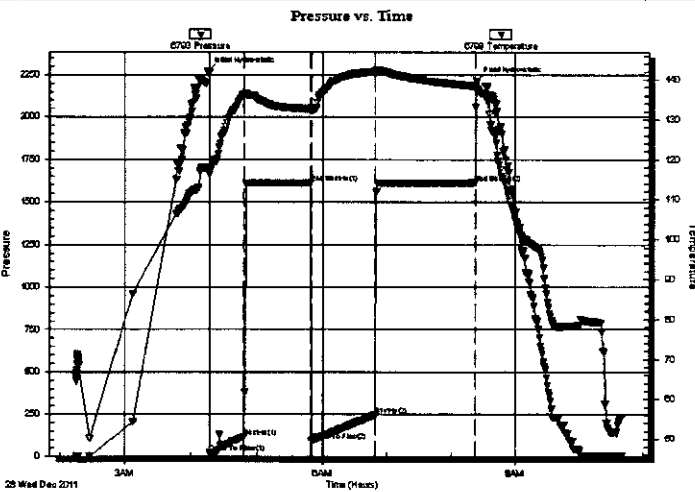
**11-30s-12w Barber, KS**  
**Hirt Farms #1**  
Job Ticket: 44130 **DST#: 5**  
Test Start: 2011.12.28 @ 02:15:15

## GENERAL INFORMATION:

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

**Serial #: 6798** **Inside**  
Press@RunDepth: **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 Btmr: **2011.12.28 @ 04:15:15**  
Time Off Btmr: **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  
FSt: 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)





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**TOOL DIAGRAM**

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ATTN: Ken Lablanc

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

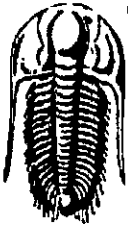
**Tool Information**

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  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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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

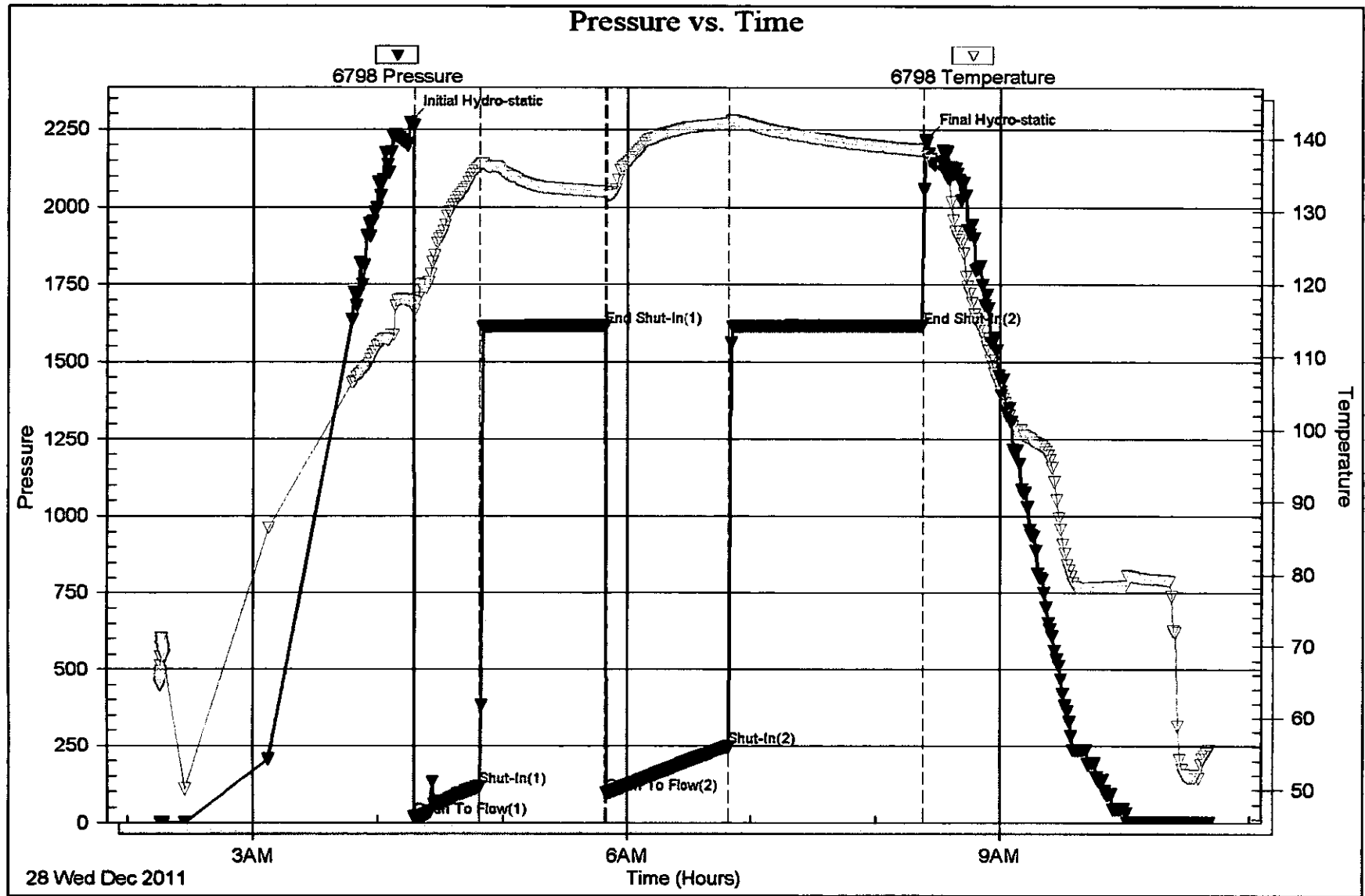
Length ft	Description	Volume bbl
279.00	Water	3.914
93.00	MCW 20%M 80%W	1.305
103.00	SOSWCM 1%O 29%W 70%M	1.445

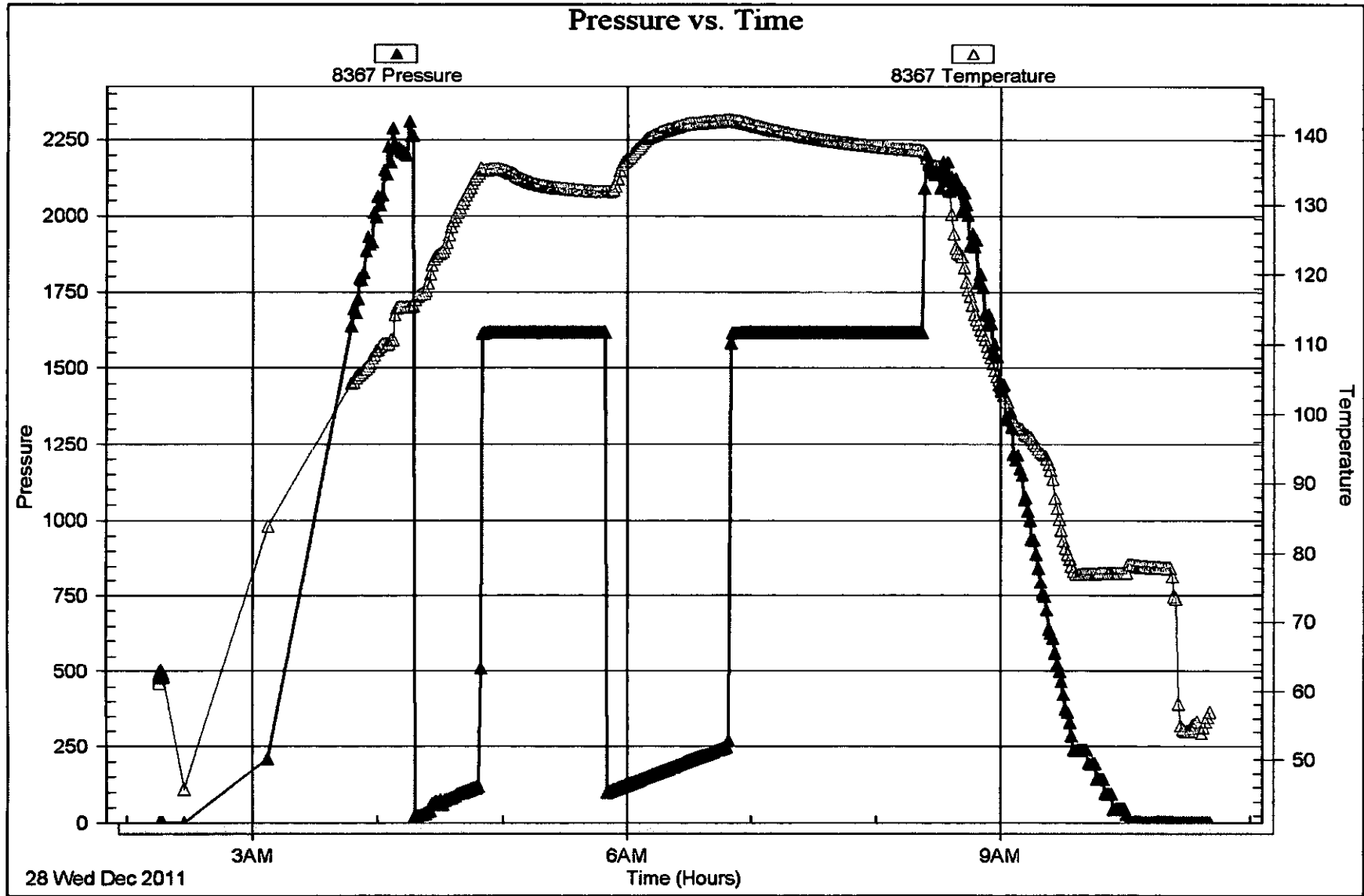
Total Length: 475.00ft      Total Volume: 6.664 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW was .17 @ 40 degrees







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 15 2011

Test Ticket

NO. 46335

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 Rlg 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  
FSD - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>6 USOC M</u>	<u>5</u>	<u>5</u>	<u>90</u>	<u>—</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 1232  
 (B) First Initial Flow 35  
 (C) First Final Flow 41  
 (D) Initial Shut-In 78  
 (E) Second Initial Flow 41  
 (F) Second Final Flow 43  
 (G) Final Shut-In 75  
 (H) Final Hydrostatic 1215

Test 1125'  
 Jars 250'  
 Safety Joint 75'  
 Circ Sub  
 Hourly Standby  
 Mileage 50 RT 70  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1520

T-On Location 2:45 pm  
 T-Started 3:37 pm  
 T-Open 5:33 pm  
 T-Pulled 7:33 pm  
 T-Out 9:30 pm

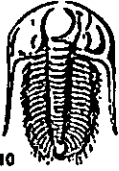
Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1520  
 MP/DST Disc't \_\_\_\_\_

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

Approved By \_\_\_\_\_ Our Representative Cody Blum

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.





# TRIBOLITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 20 2011

Test Ticket

No. 46336

4/10

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

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

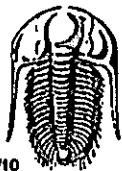
Interval Tested <u>2924-2940</u>	Zone Tested <u>Tarkio Sand</u>
Anchor Length <u>16'</u>	Drill Pipe Run <u>2740</u> Mud Wt. <u>88</u>
Top Packer Depth <u>2919</u>	Drill Collars Run <u>186'</u> Vis <u>73</u>
Bottom Packer Depth <u>2924</u>	Wt. Pipe Run <u>—</u> WL <u>—</u>
Total Depth <u>2940</u>	Chlorides <u>3700</u> ppm System LCM <u>—</u>
Blow Description <u>IF-6" blow</u>	
<u>ISI- No blow back</u>	
<u>FF-4" blow</u>	
<u>FSI- No blow back</u>	

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>Mud, oil scum</u>			<u>100</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 <u>10'</u>	BHT <u>98°</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u>	F Chlorides <u>—</u> ppm
(A) Initial Hydrostatic <u>1410</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>2:13am</u>			
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>2:38am</u>			
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>4:11am</u>			
(D) Initial Shut-In <u>87</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:11am</u>			
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:07am</u>			
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT 70</u>	Comments _____			
(G) Final Shut-In <u>77</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer			
(H) Final Hydrostatic <u>1318</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>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>108.37</u>			
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1678.37</u>			
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>24hr + 4 3/4</u>	MP/DST Disc't _____			
	<input type="checkbox"/> Accessibility				
	Sub Total <u>1520</u>				

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

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**TRIOBITE TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 20 2011

Test Ticket

NO. 46337

4/10

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>40'</u>	<u>GV/SOCWM</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 2075
- (B) First Initial Flow 20
- (C) First Final Flow 32
- (D) Initial Shut-In 1336
- (E) Second Initial Flow 31
- (F) Second Final Flow 60
- (G) Final Shut-In 1219
- (H) Final Hydrostatic 2053

- Test 1225'
- Jars 250'
- Safety Joint 75'
- Circ Sub
- Hourly Standby
- Mileage 50RT 70'
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1620'

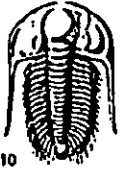
T-On Location 5:22 am  
 T-Started 6:52 am 6:57  
 T-Open 9:09 am  
 T-Pulled 12:09 am 12:39 pm  
 T-Out 2:19 pm

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1620'  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative Cody Bledorn

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**TRIBOLITE TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 28 2011

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 Rkwy 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>GIP</u>				
<u>500</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 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 \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale 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

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 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

## Test Ticket

NO. 44130

BY:

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 FF: Fair Blow, BOB in 28 minutes  
TSF: NO Blowback  
FF: Fair Blow, BOB in 25 minutes  
FSE: NO Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>103</u>	<u>SoS WCM</u>	<u>1</u>	<u>29</u>	<u>70</u>	<u></u>
<u>93</u>	<u>M CW</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) 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>1120</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1120</u>	

Approved By Ken LeBlanc Our Representative [Signature]

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