

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

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Cody Bloedorn**

Unit No: **47**

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**

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)**

Start Date: **2011.12.14**

End Date:

2011.12.14

Capacity: **8000.00 psig**

Last Calib.: **2011.12.14**

Start Time: **15:37:05**

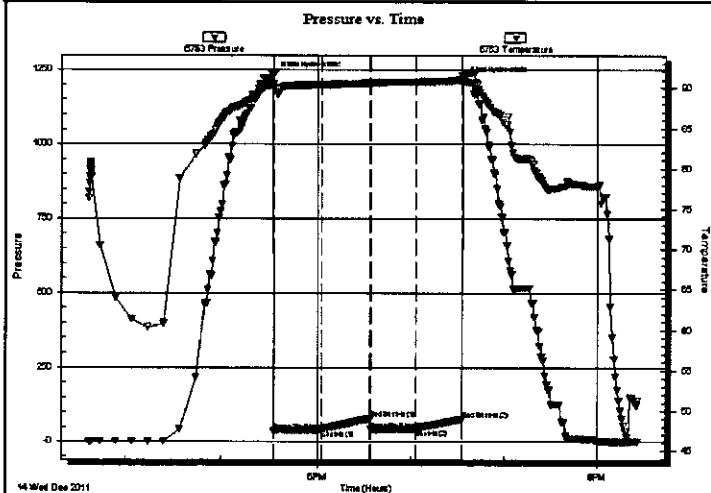
End Time:

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	GVSOCM, 5%O, 5%G, 90%M	0.10

Gas Rates

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

Formation: Council Grove

Deviated:	No	Whipstock	ft (KB)
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Time Tool Opened: 17:33:00

Time Test Ended: 21:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloodorn

Unit No: 47

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

Reference Elevations: 1810.00 ft (KB)

1802.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press@RunDepth: psig @ 2389.00 ft (KB)

Start Date: 2011.12.14

End Date:

2011.12.14

Capacity: 8000.00 psia

Last Calib.: 2011.12.14

Start Time: 15:36:35

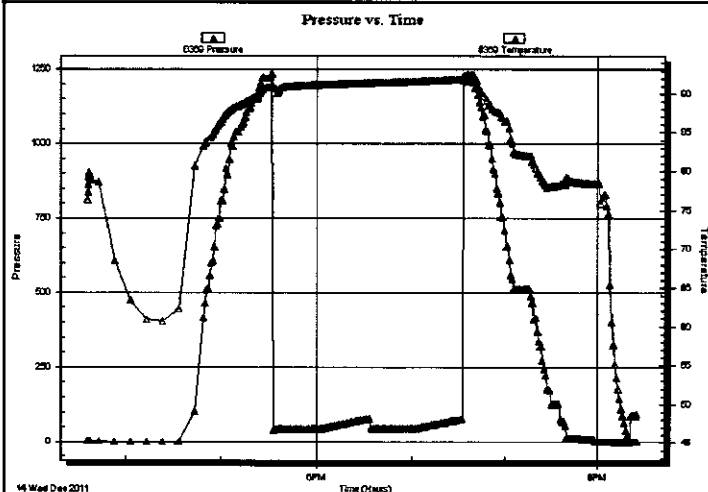
End Time:

21:25:29

Time On Btm:

Time Off Btmg

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



PRESSURE SUMMARY

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

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc

11-30s-12w Barber, KS

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

Hirt Farms #1

Job Ticket: 46335

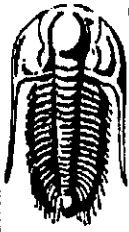
DST#: 1

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
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

11-30s-12w Barber, KS

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

Hirt Farms #1

Job Ticket: 46335

DST#: 1

Test Start: 2011.12.14 @ 15:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 88.00 sec/qt

Water Loss: 5.68 in³

Resistivity: ohm.m

Salinity: 82000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GVSOQM, 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:

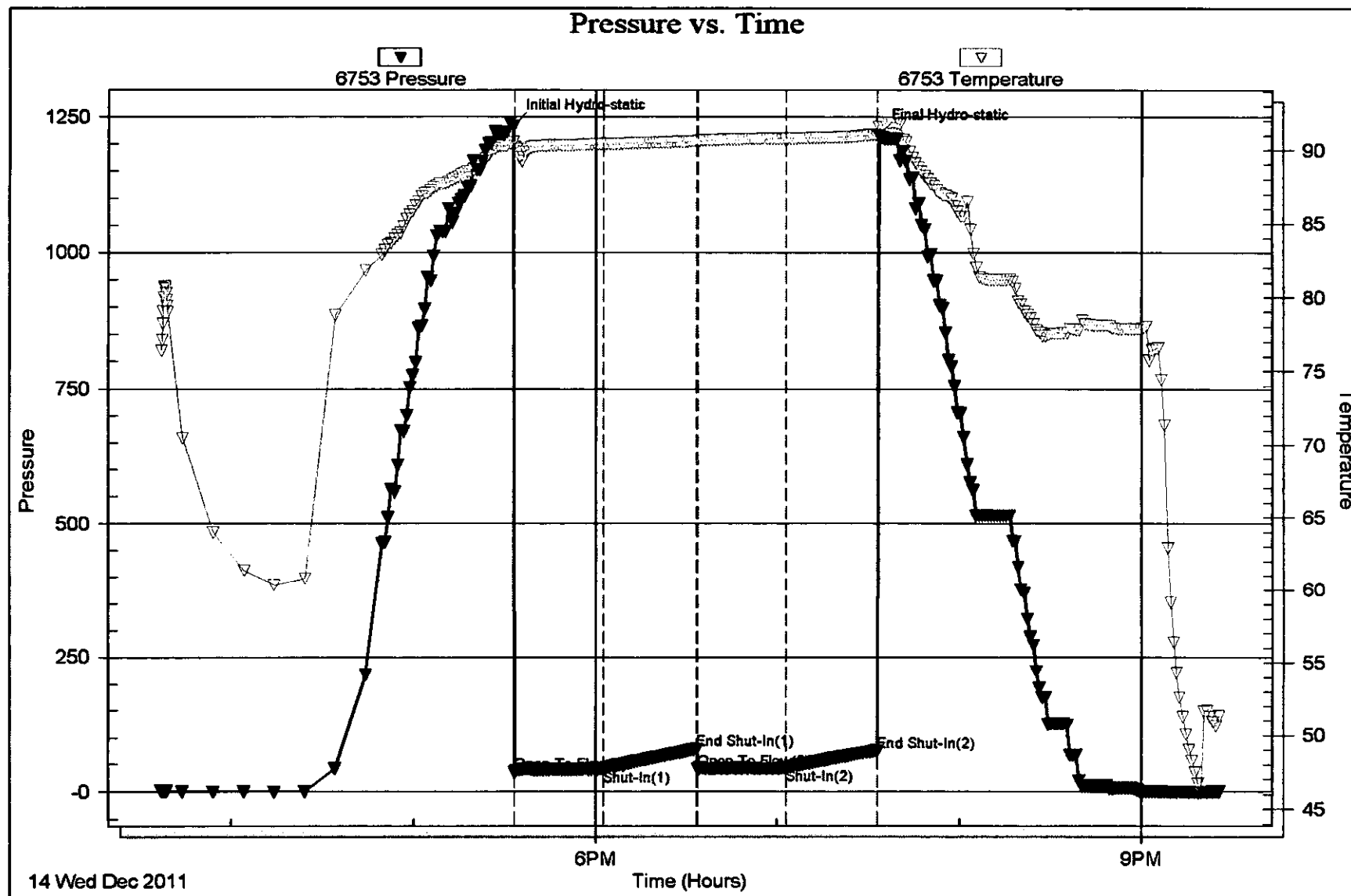
Recovery Comments:

Serial #: 6753

Inside CMX Inc

Hrt Fams #1

DST Test Number: 1

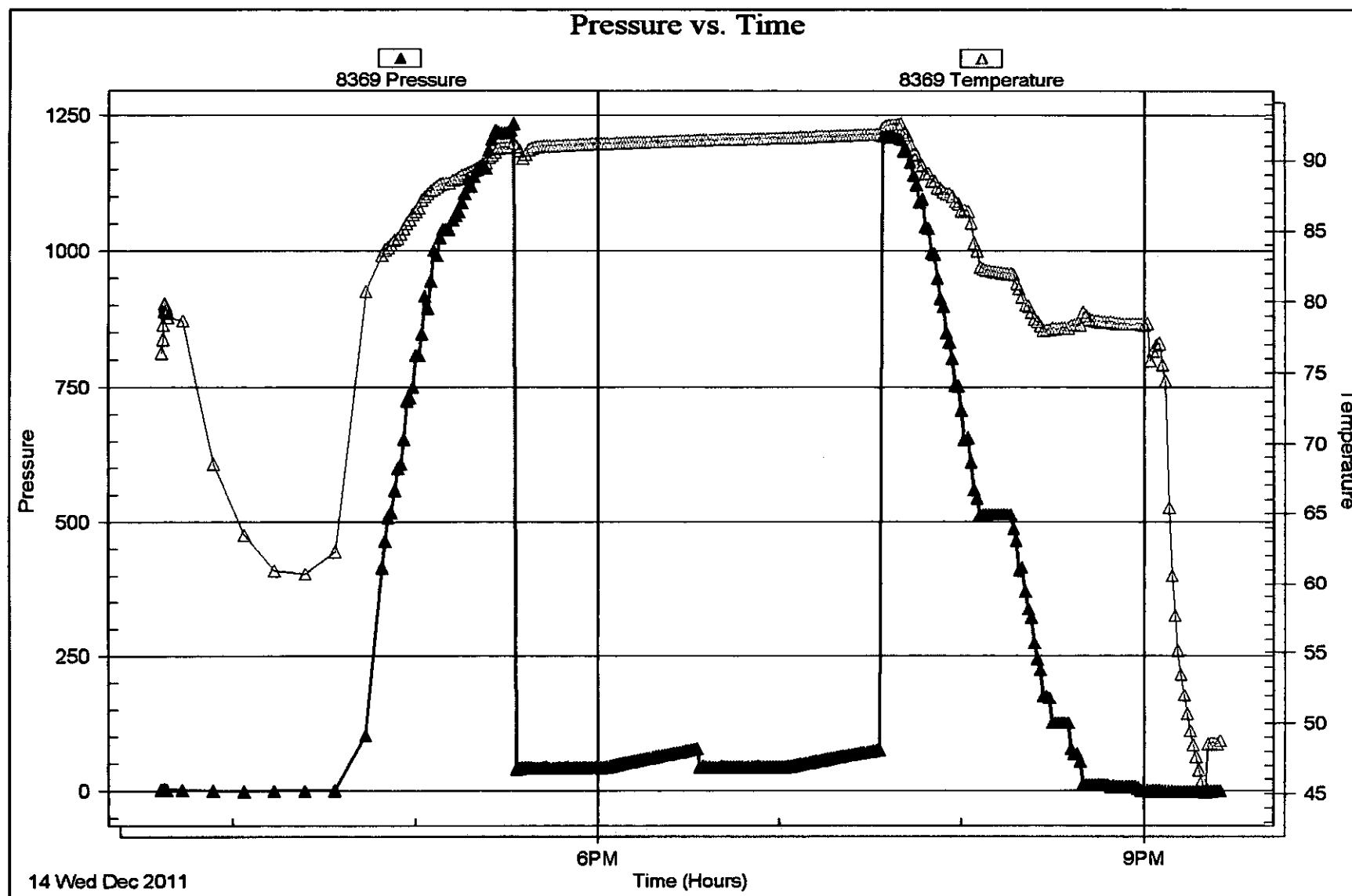


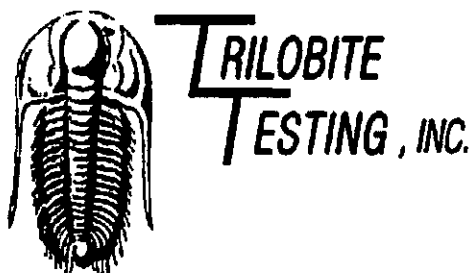
Serial #: 8369

Outside CMX Inc

Hrt Farms #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

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

ATTN: Ken Lablanc

Hirt Farms #1

11-30s-12w Barber,KS

Start Date: 2011.12.16 @ 02:38:00

End Date: 2011.12.16 @ 08:06:00

Job Ticket #: 46336 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.29 @ 14:22:03

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX Inc

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

11-30s-12w Barber, KS

Hirt Farms #1

Job Ticket: 46336

DST#: 2

Test Start: 2011.12.16 @ 02:38:00

GENERAL INFORMATION:

Formation: **Tarkio Sand**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 04:11:00

Time Test Ended: 08:06:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

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

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)

Start Date: 2011.12.16

End Date:

2011.12.16

Start Time: 02:38:05

End Time:

08:05:59

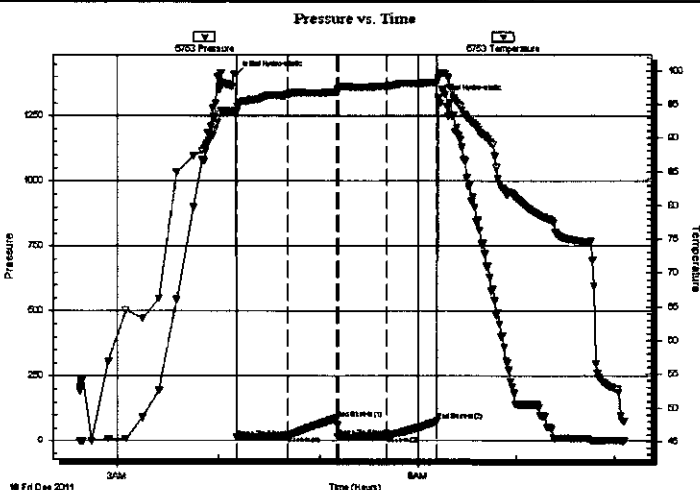
Capacity: 8000.00 psig

Last Calib.: 2011.12.16

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

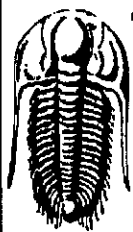
Recovery

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 (Mc/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc

11-30s-12w Barber,KS

1700 N. Waterfront Hwy
Bldg 300 B
Wichita, KS 67206
ATTN: Ken Lablanc

Hirt Farms #1

Job Ticket: 46336

DST#: 2

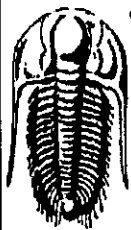
Test Start: 2011.12.16 @ 02:38:00

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
					Total Volume:	39.34 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft							
Depth to Top Packer:	2924.00 ft							
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

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

11-30s-12w Barber,KS

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

Hirt Farms #1

Job Ticket: 46336

DST#: 2

Test Start: 2011.12.16 @ 02:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 88.00 sec/qt

Water Loss: 5.68 in³

Resistivity: ohm.m

Salinity: 82000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

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:

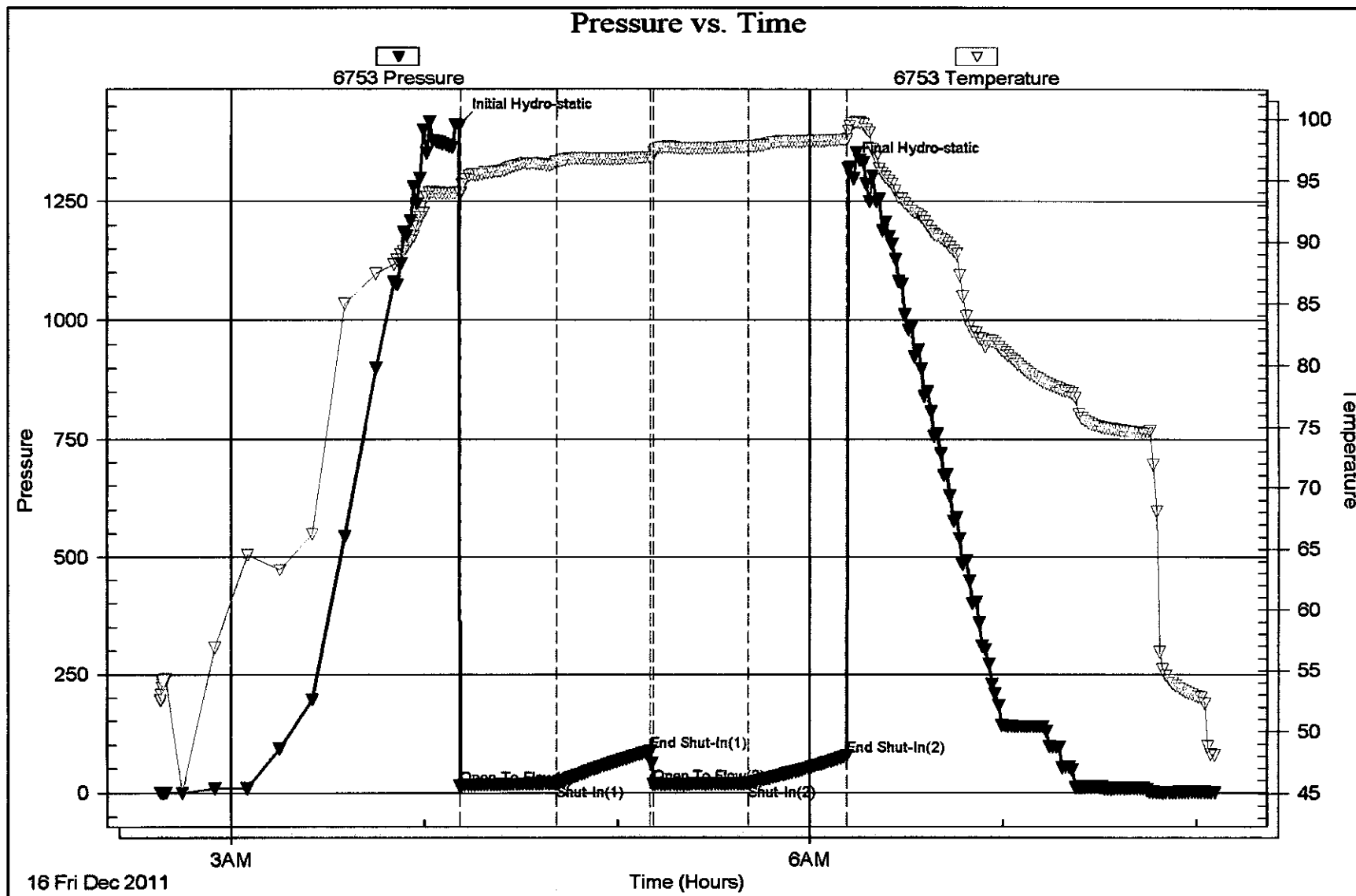
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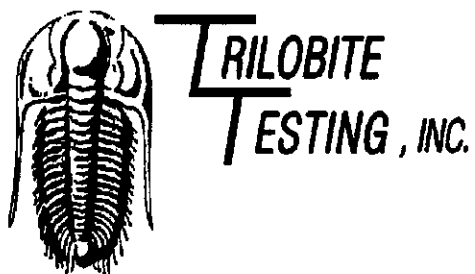
Serial #: 6753

Inside CMX Inc

Hrt Farms #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

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

ATTN: Ken Lablanc

Hirt Farms #1

11-30s-12w Barber,KS

Start Date: 2011.12.19 @ 06:57:00

End Date: 2011.12.19 @ 14:18:00

Job Ticket #: 46337 DST #: 3

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

Printed: 2011.12.29 @ 14:21:23

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX Inc

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

11-30s-12w Barber, KS

Hirt Farms #1

Job Ticket: 46337

DST#: 3

Test Start: 2011.12.19 @ 06:57:00

GENERAL INFORMATION:

Formation: **KC "Drum"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:08:30

Time Test Ended: 14:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 42

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

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)

Start Date: 2011.12.19

End Date:

2011.12.19

Capacity: 8000.00 psig

Last Calib.: 2011.12.19

Start Time: 06:57:05

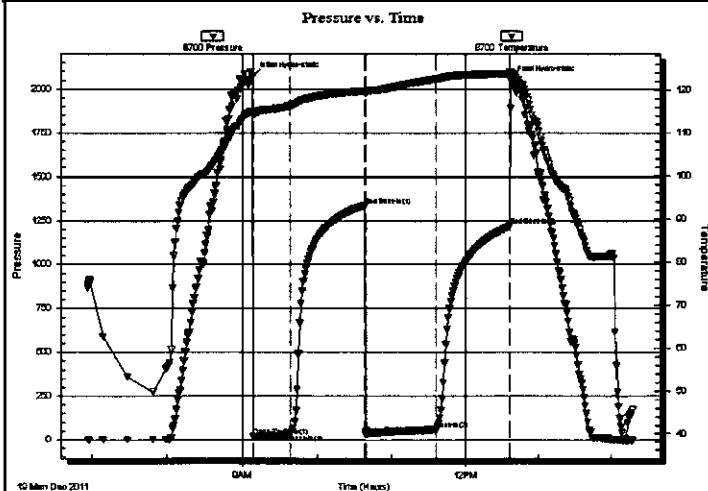
End Time:

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 - ISI- No blow back
60 - FF- 8 1/4" Blow
60 - FSI- 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

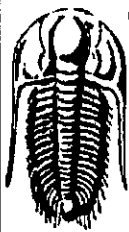
Recovery

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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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX Inc

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

11-30s-12w Barber, KS

Hirt Farms #1

Job Ticket: 46337

DST#: 3

Test Start: 2011.12.19 @ 06:57:00

GENERAL INFORMATION:

Formation: **KC "Drum"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:08:30

Time Test Ended: 14:18:00

Interval: **4030.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Total Depth: 4050.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 42

Reference Elevations: 1810.00 ft (KB)

1802.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **6625**

Inside

Press@RunDepth: psig @ 4031.00 ft (KB)

Start Date: 2011.12.19

End Date:

2011.12.19

Capacity: 8000.00 psig

Last Calib.: 2011.12.19

Start Time: 06:56:35

End Time:

14:19:29

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

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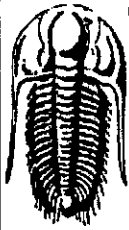
Recovery

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

* Recovery from multiple tests

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc

11-30s-12w Barber,KS

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

Hirt Farms #1

Job Ticket: 46337

DST#: 3

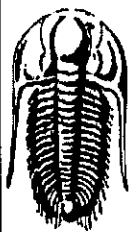
Test Start: 2011.12.19 @ 06:57:00

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
			Total Volume: 56.54 bbl	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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

11-30s-12w Barber,KS

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

Hirt Farms #1

Job Ticket: 46337

DST#: 3

Test Start: 2011.12.19 @ 06:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 69.00 sec/qt

Water Loss: 7.38 in³

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 55000 ppm

deg API

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:

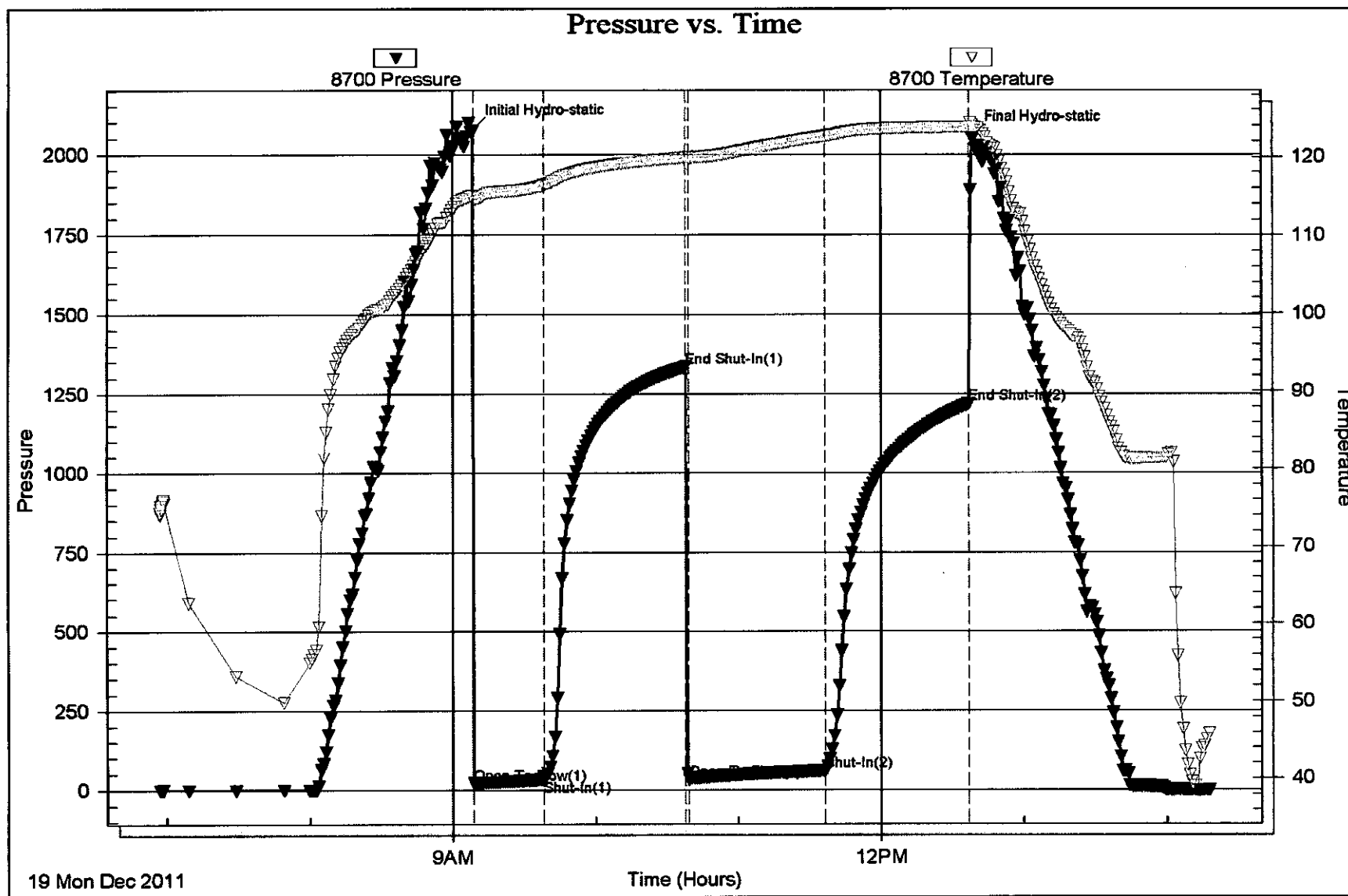
Recovery Comments: Salinity: .2 @ 54 Degrees = 55,000

Serial #: 8700

Outside CMX Inc

Hrt Farms #1

DST Test Number: 3

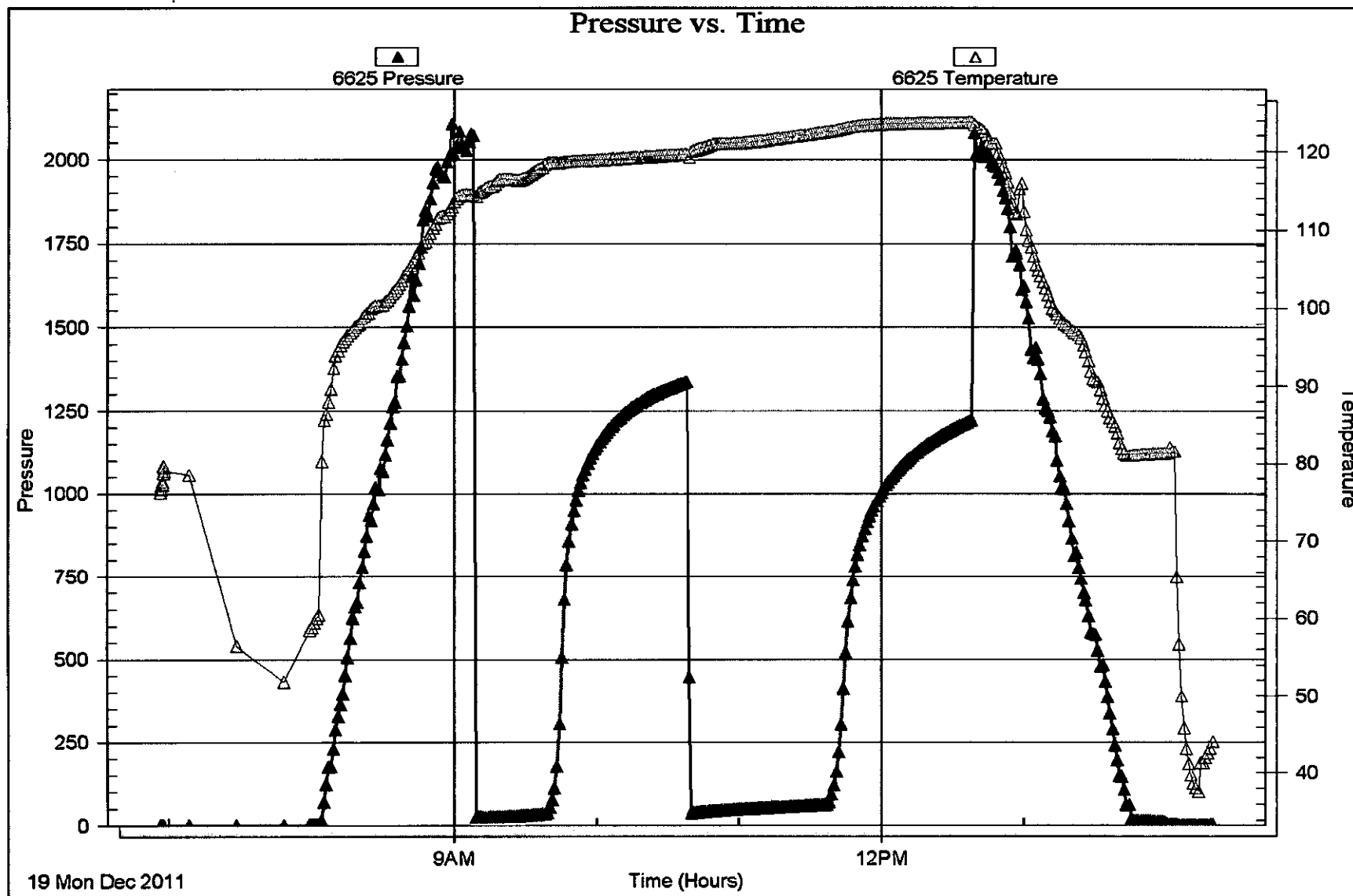


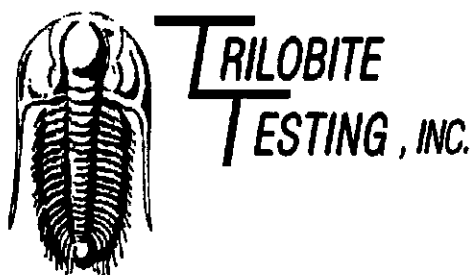
Serial #: 6625

Inside CMX Inc

Hrt Fams #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

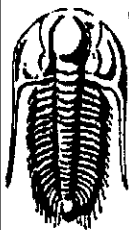
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.29 @ 14:20:37

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

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Leal Cason**

Unit No: **45**

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**

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)**

Start Date: **2011.12.21**

End Date:

2011.12.22

Capacity: **8000.00 psig**

Last Calib.: **2011.12.22**

Start Time: **17:00:32**

End Time:

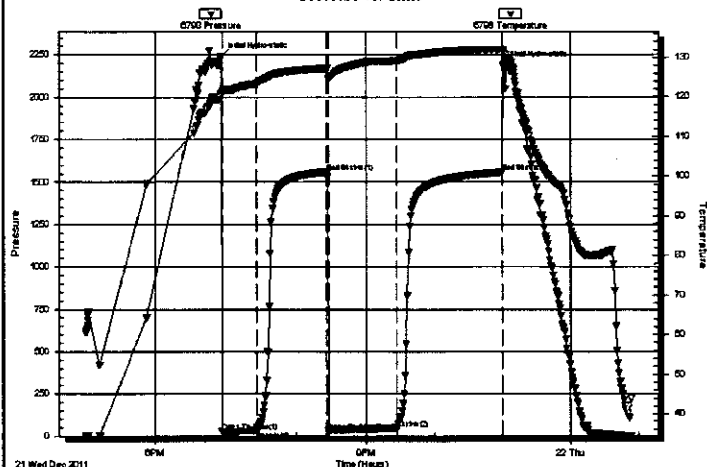
00:53:46

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 vs. Time



PRESSURE SUMMARY

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

Hirt Farms #1

Job Ticket: 44128

DST#: 4

Test Start: 2011.12.21 @ 17:00:31

Formation: **Viola**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 18:56:16
Time Test Ended: 00:53:46

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45

Interval: 4458.00 ft (KB) To 4480.00 ft (KB) (TVD)
Total Depth: 4480.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 1810.00 ft (KB)
1802.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 4459.00 ft (KB)

Start Date: 2011.12.21

End Date:

2011.12.22

Start Time: 17:00:32

End Time:

00:53:46

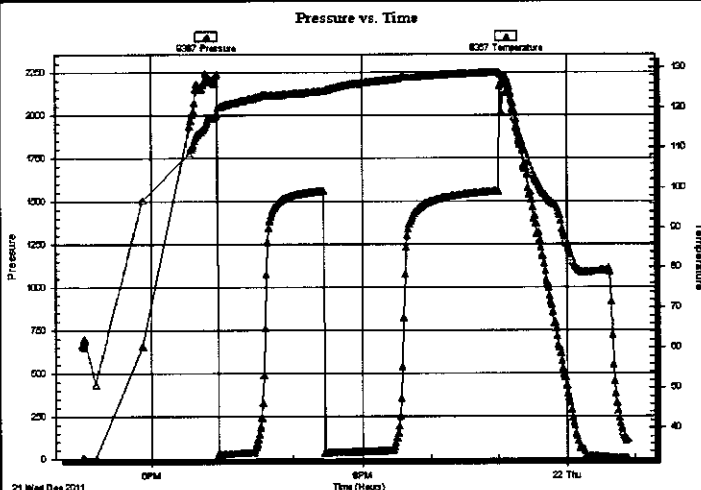
Capacity: 8000.00 psig

Last Calib.: 2011.12.22

Time On Btm:

Time Off Btmc

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



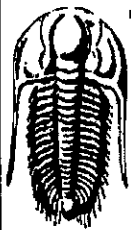
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
----------------	--------------------	-----------------	------------

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMK Inc

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

11-30s-12w Barber,KS

Hirt Farms #1

Job Ticket: 44128

DST#: 4

Test Start: 2011.12.21 @ 17:00:31

Tool Information

Drill Pipe:	Length:	4436.00 ft	Diameter:	3.80 inches	Volume:	62.23 bbl	Tool Weight:	2500.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb		
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	90000.00 lb		
					Total Volume:	62.23 bbl	Tool Chased	ft		
Drill Pipe Above KB:	5.00 ft							String Weight: Initial	57000.00 lb	
Depth to Top Packer:	4458.00 ft							Final	58000.00 lb	
Depth to Bottom Packer:	ft									
Interval between Packers:	22.00 ft									
Tool Length:	49.00 ft									
Number of Packers:	2		Diameter:	6.75 inches						
Tool Comments:										

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



**TRILLOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

11-30s-12w Barber, KS

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

Hirt Farms #1

Job Ticket: 44128

DST#: 4

Test Start: 2011.12.21 @ 17:00:31

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.39 in³

Resistivity: ohm.m

Salinity: 3300.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	850 Feet GIP	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:

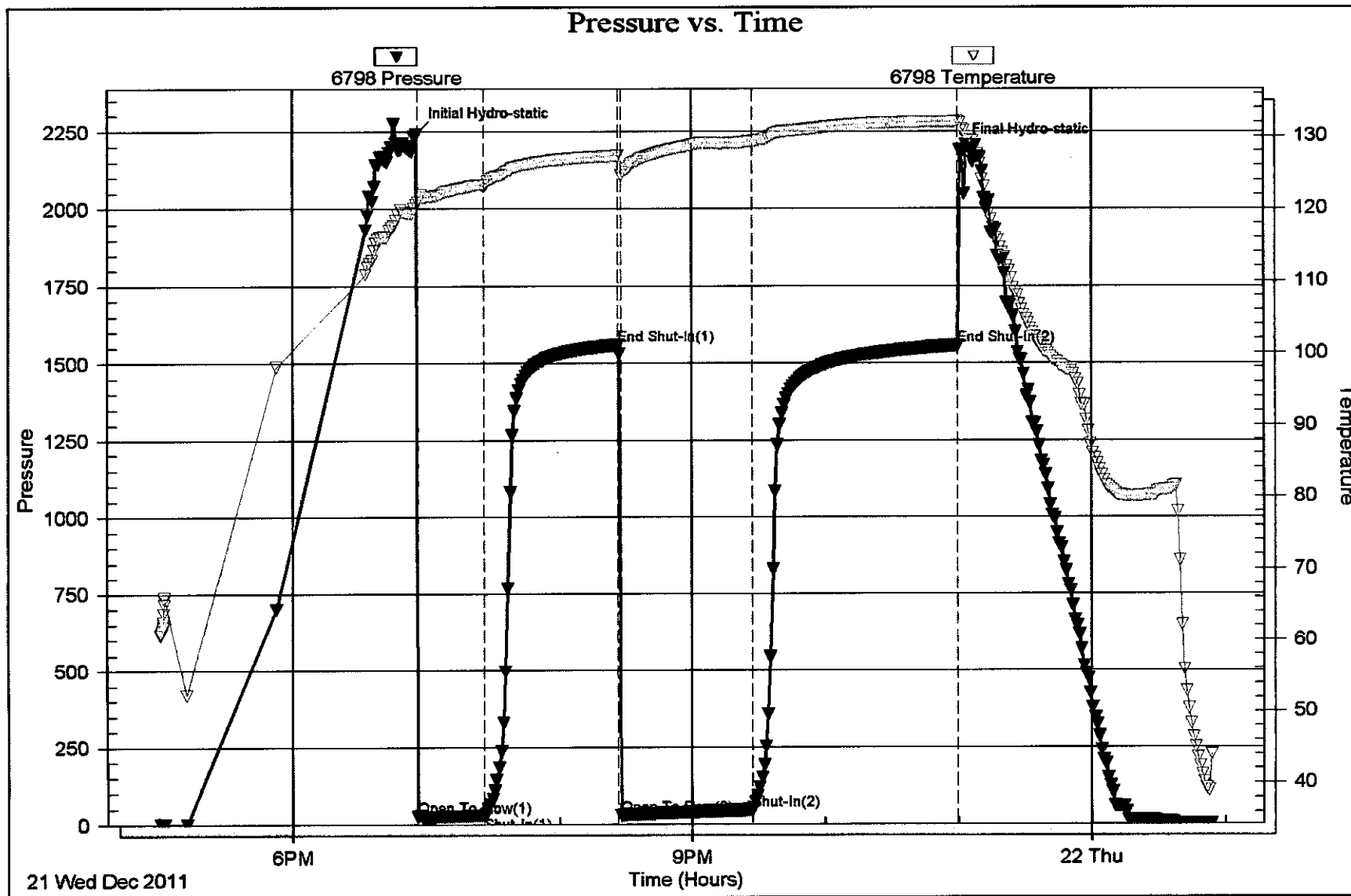
Recovery Comments:

Serial #: 6798

Inside CMX Inc

Hrt Farms #1

DST Test Number: 4

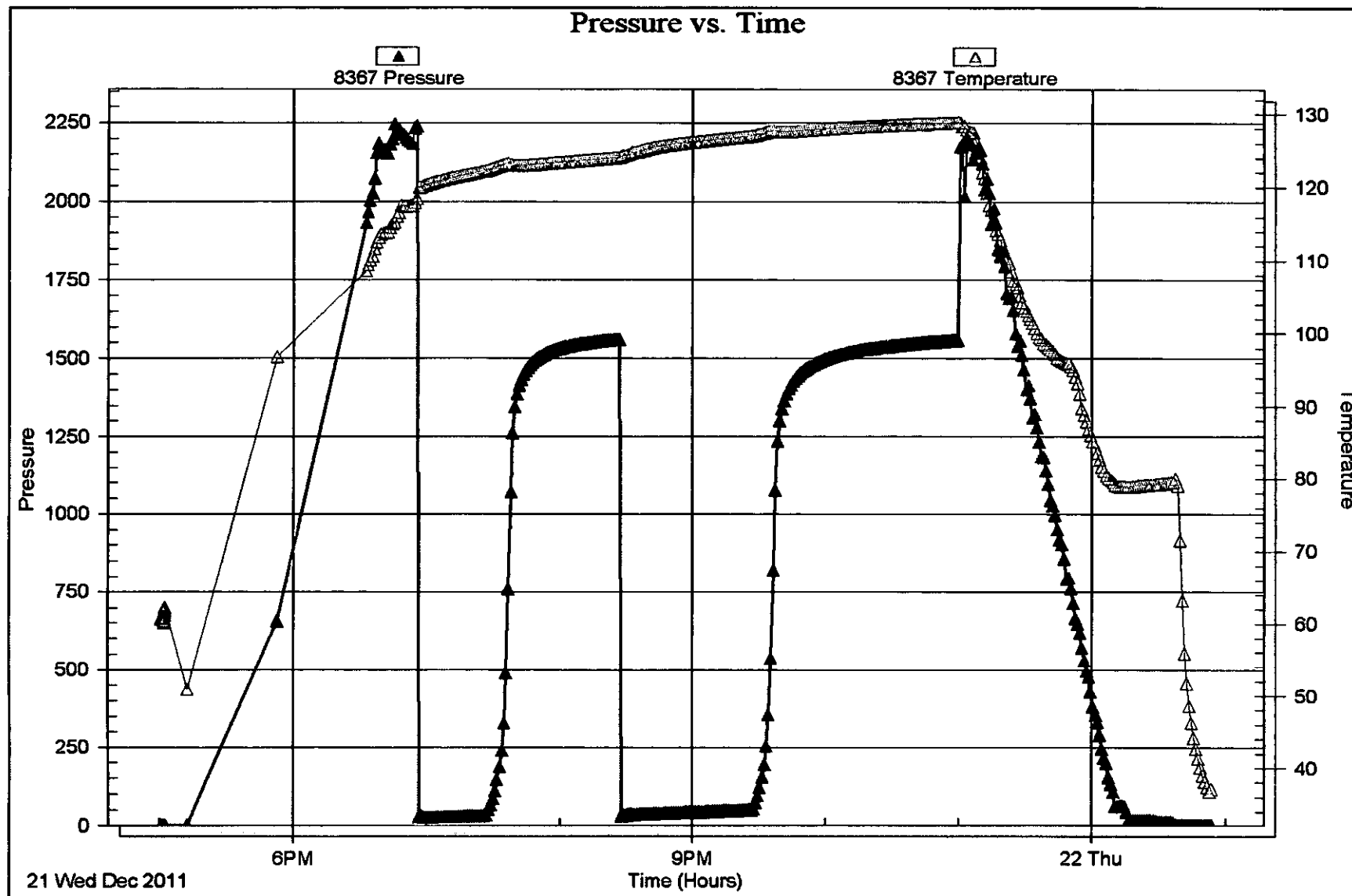


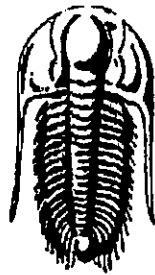
Serial #: 8367

Outside CMX Inc

Hrt Farms #1

DST Test Number: 4





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: 2011.12.28 @ 02:15:15

End Date: 2011.12.28 @ 10:41:00

Job Ticket #: 44130

DST #: 5

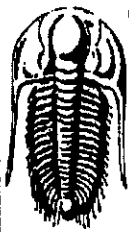
Trilobite Testing, Inc

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

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

Total Depth: 4555.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Reference Elevations: 1810.00 ft (KB)

1802.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **6798**

Inside

Press@RunDepth: 246.99 psig @ 4531.00 ft (KB)

Start Date: 2011.12.28

End Date:

2011.12.28

Start Time: 02:15:16

End Time:

10:41:00

Capacity: 8000.00 psig

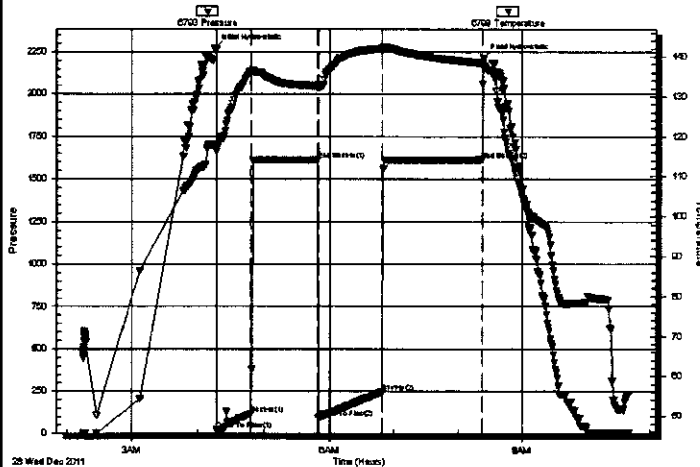
Last Calib.: 2011.12.29

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
FS: No Blow back

Pressure vs. Time



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

11-30s-12w Barber,KS

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

Hirt Farms #1

Job Ticket: 44130

DST#: 5

Test Start: 2011.12.28 @ 02:15:15

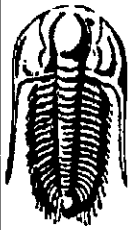
Tool Information

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4508.00	
Hydraulic tool	5.00			4513.00	
Jars	5.00			4518.00	
Safety Joint	2.00			4520.00	
Packer	5.00			4525.00	27.00 Bottom Of Top Packer
Packer	5.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	6798	Inside	4531.00	
Recorder	0.00	8367	Outside	4531.00	
Perforations	21.00			4552.00	
Bullnose	3.00			4555.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

11-30s-12w Barber,KS

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

Hirt Farms #1

Job Ticket: 44130

DST#: 5

Test Start: 2011.12.28 @ 02:15:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.59 in³

Resistivity: ohm.m

Salinity: 8500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

deg API

Water Salinity: 80000 ppm

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

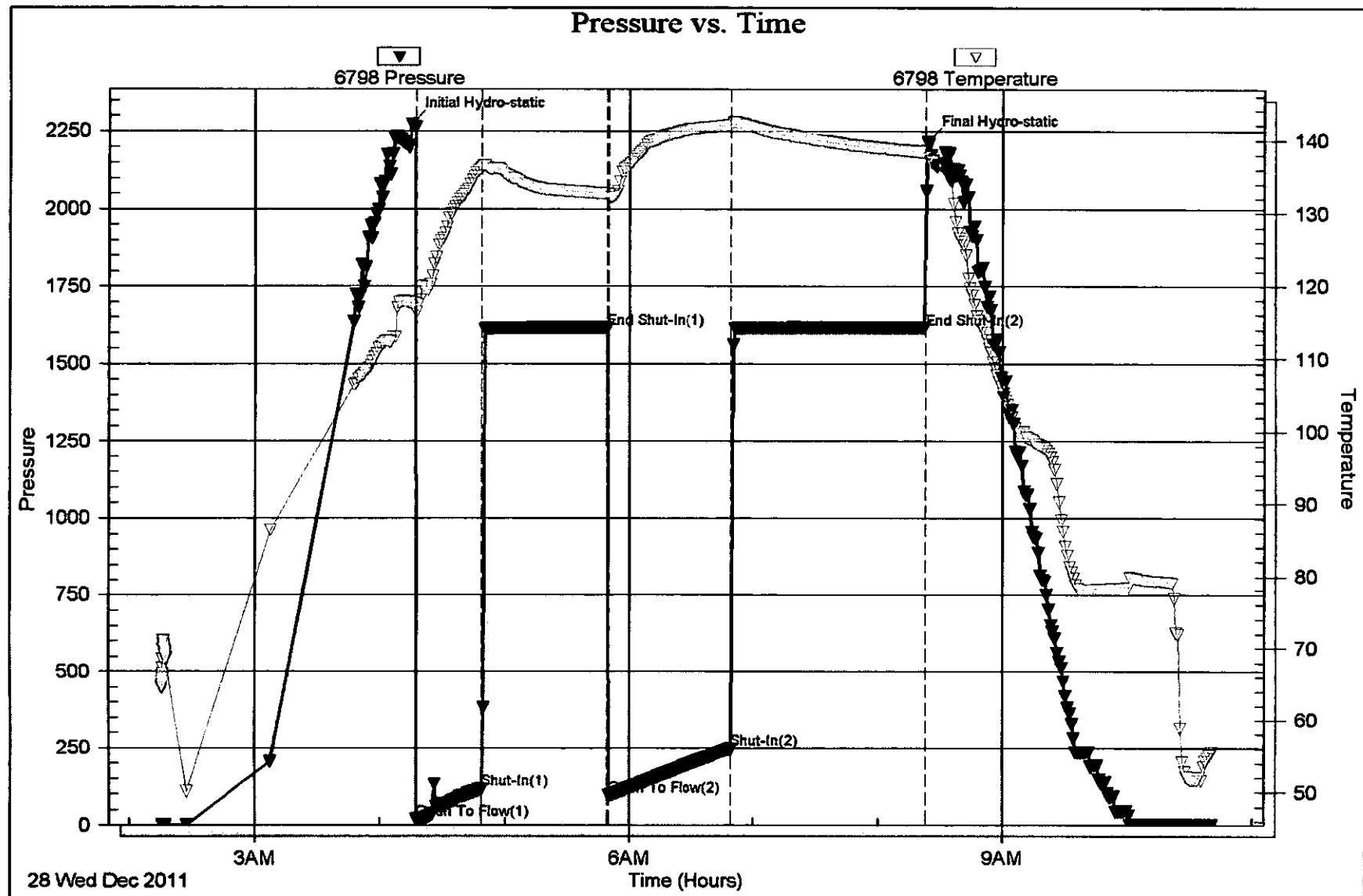
Num Gas Bombs: 0

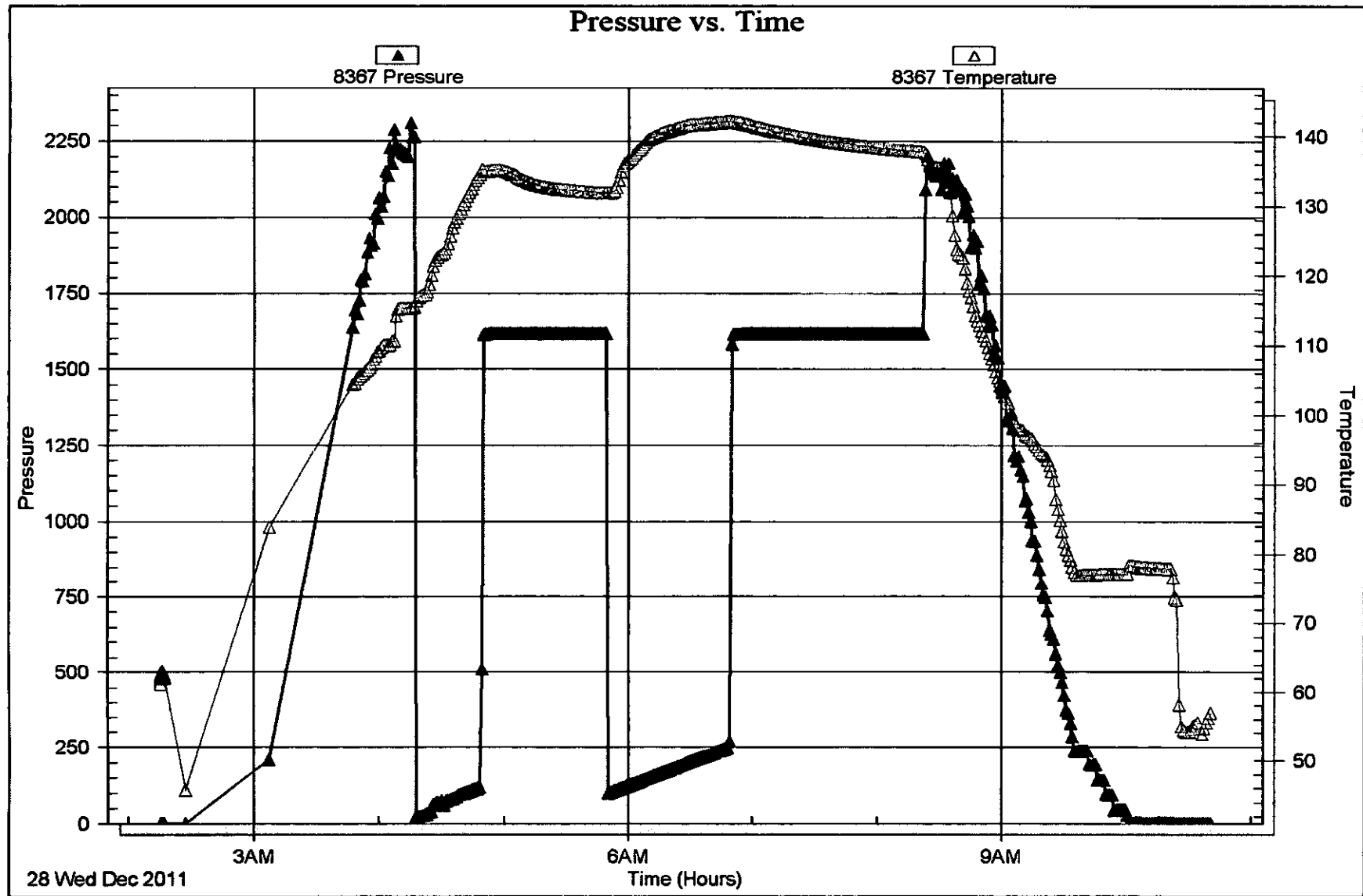
Serial #:

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>6.45 sec M</u>	<u>5</u>	<u>5</u>	<u>90</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 910 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic	<u>1232</u>	☒ Test	<u>1125</u>	T-On Location	<u>2:45 pm</u>
(B) First Initial Flow	<u>35</u>	☒ Jars	<u>250</u>	T-Started	<u>3:37 pm</u>
(C) First Final Flow	<u>41</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>5:33 pm</u>
(D) Initial Shut-In	<u>78</u>	☐ Circ Sub		T-Pulled	<u>7:33 pm</u>
(E) Second Initial Flow	<u>41</u>	☐ Hourly Standby		T-Out	<u>9:30 pm</u>
(F) Second Final Flow	<u>43</u>	☒ Mileage	<u>50 RL 70</u>	Comments	
(G) Final Shut-In	<u>75</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1215</u>	☐ Straddle			

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

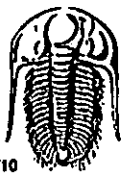
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1520
 MP/DST Disc't —
 Sub Total 1520

Approved By

Our Representative

Cody B...

Trilobite Testing Inc. shall not be liable for damaged or 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 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 <u>10'</u>	Feet of <u>Mud, oil scum</u>	%gas	%oil	%water <u>100</u>	%mud
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 10' BHT 98° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1410
 (B) First Initial Flow 14
 (C) First Final Flow 18
 (D) Initial Shut-In 87
 (E) Second Initial Flow 16
 (F) Second Final Flow 19
 (G) Final Shut-In 77
 (H) Final Hydrostatic 1318

☒ Test 1125'
☒ Jars 250'
☒ Safety Joint 75'
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 60 RT 70
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☒ Day Standby 24 hr + 4 3/4
☐ Accessibility
 Sub Total 1520

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

Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 108.37
 Total 1678.37
 MP/DST Disc't

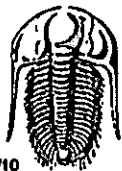
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____

Our Representative

Cody Bloodorn

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



TRIBOLITE
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>40'</u>	<u>GVSOCLWM</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>	☒ Test	<u>1225'</u>	T-On Location	<u>5:22 am</u>
(B) First Initial Flow	<u>20</u>	☒ Jars	<u>250'</u>	T-Started	<u>6:52 am 6:57</u>
(C) First Final Flow	<u>32</u>	☒ Safety Joint	<u>75'</u>	T-Open	<u>9:09 am</u>
(D) Initial Shut-In	<u>1336</u>	☐ Circ Sub		T-Pulled	<u>12:09 am 12:39 pm</u>
(E) Second Initial Flow	<u>31</u>	☐ Hourly Standby		T-Out	<u>2:19 pm</u>
(F) Second Final Flow	<u>60</u>	☒ Mileage	<u>50 RT 70</u>	Comments	
(G) Final Shut-In	<u>1219</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2053</u>	☐ Straddle		☐ Ruined Shale Packer	

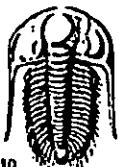
Initial Open	<u>30</u>	☐ Shale Packer		☐ Ruined Packer	
Initial Shut-In	<u>60</u>	☐ Extra Packer		☐ Extra Copies	
Final Flow	<u>60</u>	☐ Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	☐ Day Standby		Total	<u>1620</u>
		☐ Accessibility		MP/DST Disc't	
		Sub Total	<u>1620</u>		

Approved By

Our Representative

Cody Bladen

Tribolite 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 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>GIP</u>				
<u>580</u>	<u>clean oil</u>	<u>100</u>			
<u>75</u>	<u>GOCM</u>	<u>15</u>	<u>20</u>	<u>65</u>	

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

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

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

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
FSF: NO Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>103</u>	<u>So. SW 1/4</u>	<u>1</u>	<u>29</u>	<u>70</u>	<u>0</u>
<u>93</u>	<u>MCW</u>	<u>80</u>	<u>20</u>	<u>0</u>	<u>0</u>
<u>279</u>	<u>Water</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>

Rec Total 475 BHT 138° Gravity N/C API RW 17 @ 40 °F Chlorides 80000 ppm
 (A) Initial Hydrostatic 2273 ☒ Test 1225 T-On Location 01:00
 (B) First Initial Flow 19 ☒ Jars 250 T-Started 02:15
 (C) First Final Flow 116 ☒ Safety Joint 75 T-Open 04:17
 (D) Initial Shut-In 1615 ☐ Circ Sub T-Pulled 08:22
 (E) Second Initial Flow 95 ☐ Hourly Standby T-Out 10:41
 (F) Second Final Flow 247 ☒ Mileage (50) 70 Comments
 (G) Final Shut-In 1615 ☐ Sampler
 (H) Final Hydrostatic 2215 ☐ Straddle

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Initial Open 30 ☐ Extra Packer
 Initial Shut-In 60 ☐ Extra Recorder
 Final Flow 60 ☐ Day Standby
 Final Shut-In 90 ☐ Accessibility
 Sub Total 11620 Sub Total 11620

Approved By Ken LeBlanc Our Representative [Signature]

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