

TRILOBITE
TESTING, INC.

KCC
MAY 31 2006
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206

ATTN: Ken LeBlanc

15-007-22960

24-31s-12w-Barber-KS

w/a E/a SE

Chain Gang #1

Start Date: 2006.02.07 @ 18:55:19

End Date: 2006.02.08 @ 04:32:04

Job Ticket #: 24334

DST #: 1

RECEIVED

JUN 01 2006

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

CMX, Inc.

Chain Gang #1

24-31s-12w-Barber-KS

DST # 1

Miss A 20' pay

2006.02.07

24-31s-12w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX, Inc.

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24334

DST#: 1

Test Start: 2006.02.07 @ 18:55:19

GENERAL INFORMATION:

Formation: Miss A 20' pay

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:01:04

Time Test Ended: 04:32:04

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 30

Interval: 4220.00 ft (KB) To 4290.00 ft (KB) (TVD)

Total Depth: 4290.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1690.00 ft (KB)

1679.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6668

Inside

Press@RunDepth: 55.19 psig @ 4221.00 ft (KB)

Start Date: 2006.02.07

End Date:

2006.02.08

Start Time: 18:55:20

End Time:

04:32:04

Capacity: 7000.00 psig

Last Calib.: 2006.02.08

Time On Btm: 2006.02.07 @ 21:59:34

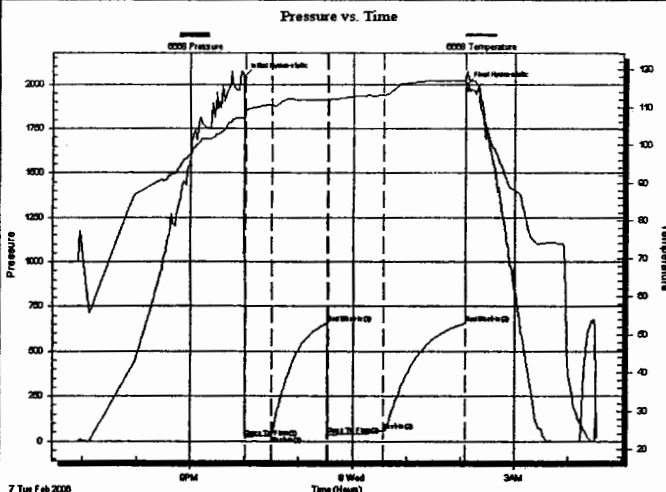
Time Off Btm: 2006.02.08 @ 02:05:19

TEST COMMENT: IF: Strong blow, BOB 2 minutes 10 seconds.

IS: Bled off, no blow back.

FF: Strong blow, BOB 5 seconds.

FST: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.94	107.03	Initial Hydro-static
2	21.11	108.75	Open To Flow (1)
31	30.48	110.77	Shut-In (1)
92	657.72	112.05	End Shut-In (1)
93	33.65	111.59	Open To Flow (2)
154	55.19	113.23	Shut-In (2)
246	656.09	116.96	End Shut-In (2)
246	1994.45	117.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
69.00	Drilling Mud 100%	0.97
0.00	3400' gas in pipe	0.00

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.

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24334

DST#: 1

Test Start: 2006.02.07 @ 18:55:19

Tool Information

Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			Total Volume: 58.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4220.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4203.00	
Hydraulic tool	5.00			4208.00	
Safety Joint	2.00			4210.00	
Packer	5.00			4215.00	22.00 Bottom Of Top Packer
Packer	5.00			4220.00	
Stubb	1.00			4221.00	
Recorder	0.00	6668	Inside	4221.00	
Perforations	32.00			4253.00	
Blank Spacing	34.00			4287.00	
Recorder	0.00	13266	Outside	4287.00	
Bullnose	3.00			4290.00	70.00 Bottom Packers & Anchor

Total Tool Length: 92.00



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FLUID SUMMARY

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1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24334

DST#: 1

Test Start: 2006.02.07 @ 18:55:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 10.38 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.04 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
69.00	Drilling Mud 100%	0.968
0.00	3400' gas in pipe	0.000

Total Length: 69.00 ft

Total Volume: 0.968 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

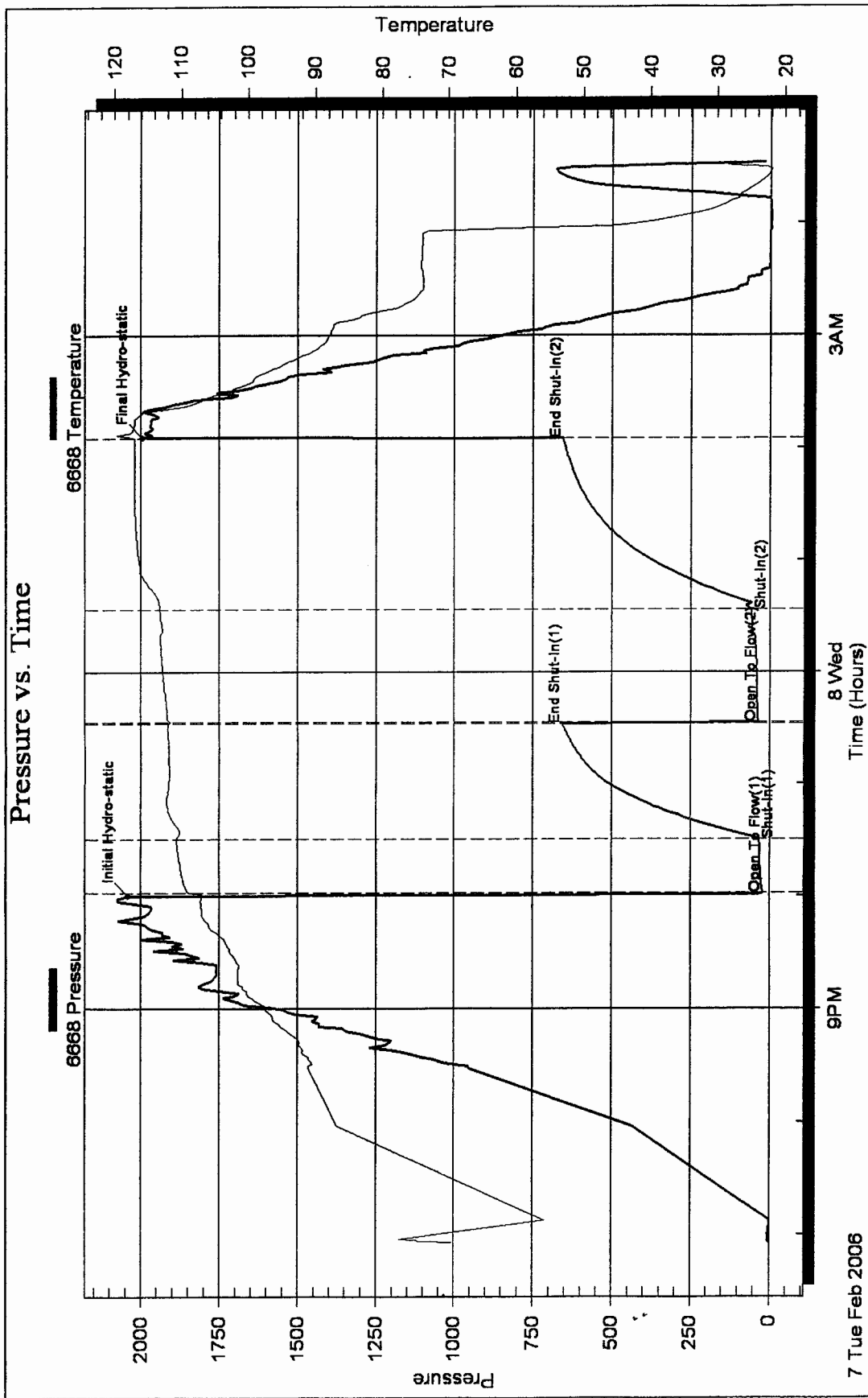
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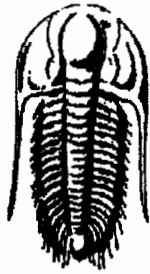
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206

ATTN: Ken LeBlanc

24-31s-12w-Barber-KS

Chain Gang #1

Start Date: 2006.02.08 @ 14:30:36

End Date: 2006.02.09 @ 01:04:21

Job Ticket #: 24335

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

CMX, Inc.

Chain Gang #1

24-31s-12w-Barber-KS

DST # 2

Lower Miss

2006.02.08

15-067-221100



**TRILOBITE
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DRILL STEM TEST REPORT

CMX, Inc.
1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24335

DST#: 2

Test Start: 2006.02.08 @ 14:30:36

GENERAL INFORMATION:

Formation: Lower Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:33:06

Time Test Ended: 01:04:21

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 30

Interval: 4290.00 ft (KB) To 4320.00 ft (KB) (TVD)

Total Depth: 4320.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1690.00 ft (KB)

1679.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6668

Inside

Press@RunDepth: 53.53 psig @ 4291.00 ft (KB)

Start Date: 2006.02.08

End Date:

2006.02.09

Start Time: 14:30:37

End Time:

01:04:21

Capacity: 7000.00 psig

Last Calib.: 2006.02.09

Time On Btm: 2006.02.08 @ 16:32:06

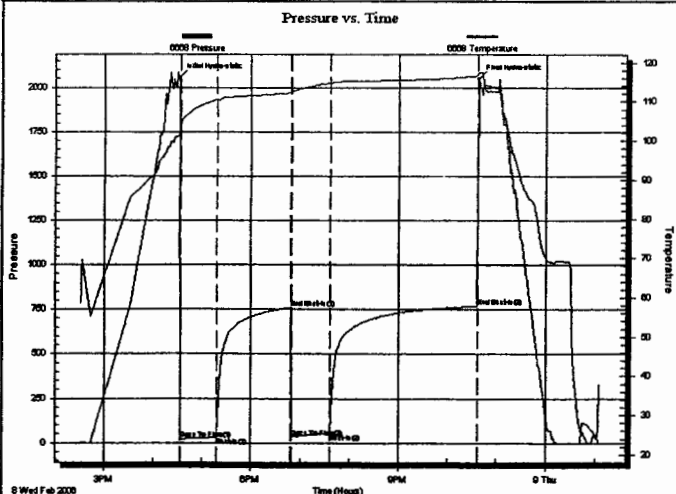
Time Off Btm: 2006.02.08 @ 22:38:21

TEST COMMENT: IF: Strong blow, BOB 1 minute 10 seconds. GTS 36 minutes.

IS: Bled off, no blow back.

FF: Strong blow, BOB immediately.

FS: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.00	101.29	Initial Hydro-static
1	17.70	104.21	Open To Flow (1)
47	32.61	110.63	Shut-In(1)
136	759.37	112.24	End Shut-In(1)
137	28.77	112.26	Open To Flow (2)
184	53.53	114.78	Shut-In(2)
365	769.90	116.64	End Shut-In(2)
367	2050.95	117.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	GCSOWCM 10%g5%o10%w 75%rm	1.05
0.00	RWF: 26ohm@31degF=70000chiPPM	0.00
0.00	Gas in all fluid free pipe.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.50	6.33
Last Gas Rate	0.13	11.50	9.69
Max. Gas Rate	0.13	11.50	9.69



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DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Inc.

Chain Gang #1

1551 N. Waterfront Parkway

24-31s-12w-Barber-KS

Suite 150

Job Ticket: 24335

DST#: 2

Wichita, KS 67206

Test Start: 2006.02.08 @ 14:30:36

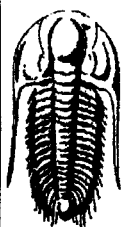
ATTN: Ken LeBlanc

Tool Information

Drill Pipe:	Length: 4298.00 ft	Diameter: 3.80 inches	Volume: 60.29 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
		Total Volume: 60.29 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4290.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 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			4273.00	
Hydraulic tool	5.00			4278.00	
Safety Joint	2.00			4280.00	
Packer	5.00			4285.00	22.00 Bottom Of Top Packer
Packer	5.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	6668	Inside	4291.00	
Perforations	26.00			4317.00	
Recorder	0.00	13266	Outside	4317.00	
Bullnose	3.00			4320.00	30.00 Bottom Packers & Anchor
Total Tool Length:		52.00			



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FLUID SUMMARY

CMX, Inc.

Chain Gang #1

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

24-31s-12w-Barber-KS

Job Ticket: 24335 DST#: 2

Test Start: 2006.02.08 @ 14:30:36

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 10.38 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.04 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API
ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	GCSOWCM 10%g5%o10%w 75%m	1.052
0.00	RAW=26ohm@31degF=70000chlPPM	0.000
0.00	Gas in all fluid free pipe.	0.000

Total Length: 75.00 ft Total Volume: 1.052 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

CMX, Inc.

Chain Gang #1

1551 N. Waterfront Parkway

24-31s-12w-Barber-KS

Suite 150

Job Ticket: 24335

DST#: 2

Wichita, KS 67206

ATTN: Ken LeBlanc

Test Start: 2006.02.08 @ 14:30:36

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

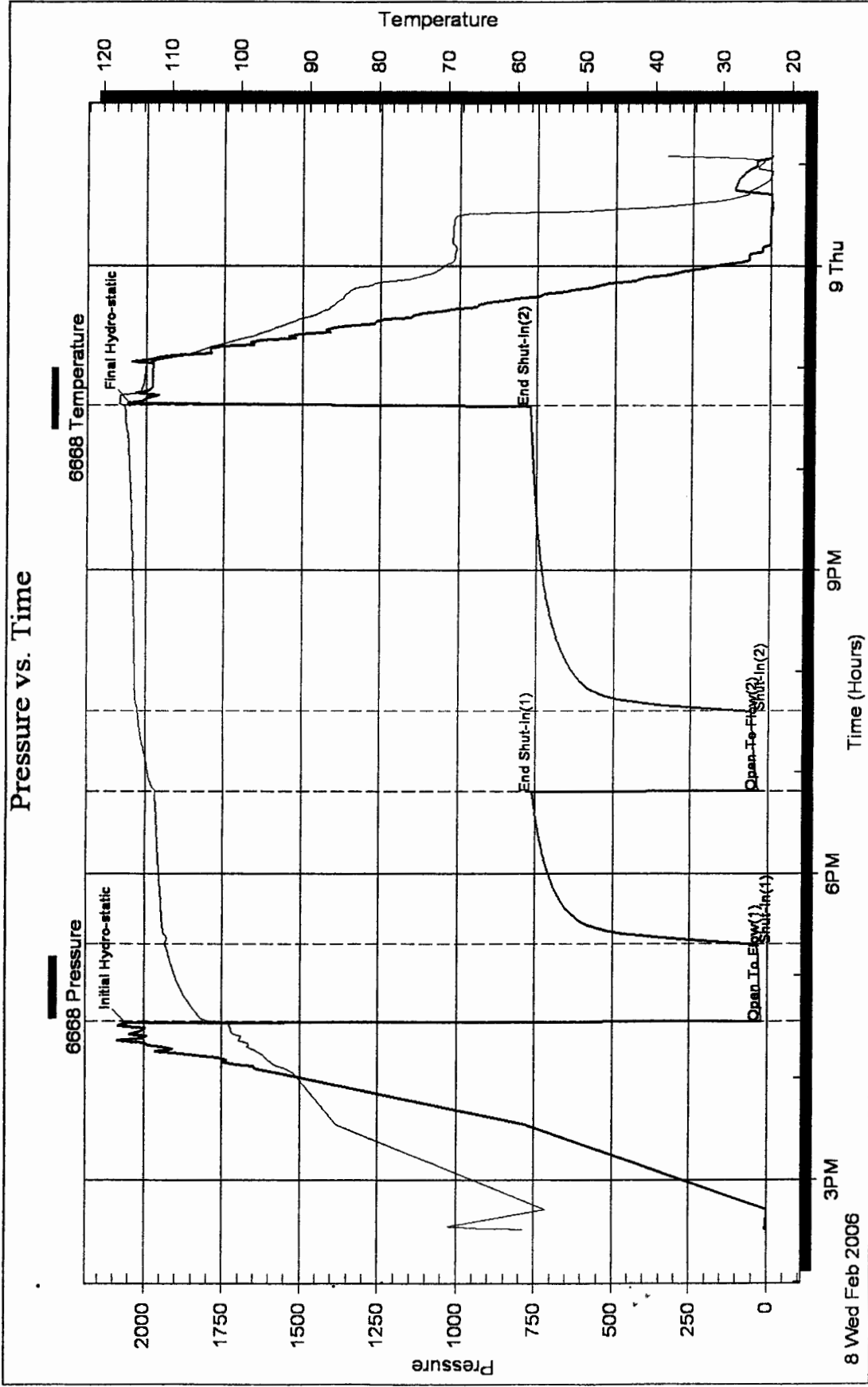
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	38	0.13	2.50	6.33
1	38	0.13	2.50	6.33
1	45	0.13	4.00	6.89
2	10	0.13	5.00	7.26
2	20	0.13	8.00	8.38
2	30	0.13	10.00	9.13
2	40	0.13	11.00	9.51
2	45	0.13	11.50	9.69

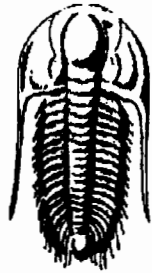
Serial #: 6668

Inside CMX, Inc.

24-31s-12w-Barber-KS

DST Test Number: 2





TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206

ATTN: Ken LeBlanc

24-31s-12w-Barber-KS

Chain Gang #1

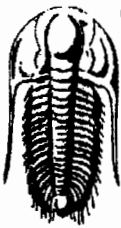
Start Date: 2006.02.10 @ 16:14:15

End Date: 2006.02.10 @ 23:13:30

Job Ticket #: 24336 DST #: 3

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

15-007-22960



**TRILOBITE
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DRILL STEM TEST REPORT

CMX, Inc.

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24336

DST#: 3

Test Start: 2006.02.10 @ 16:14:15

GENERAL INFORMATION:

Formation: **Viola**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 18:52:30

Time Test Ended: 23:13:30

Test Type: **Conventional Straddle**

Tester: **Jake Fahrenbruch**

Unit No: **30**

Interval: **4532.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Total Depth: **4701.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1690.00 ft (KB)**

1679.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **22.52 psig @ 4533.00 ft (KB)**

Start Date: **2006.02.10**

End Date:

2006.02.10

Capacity: **7000.00 psig**

Last Calib.:

2006.02.10

Start Time: **16:14:16**

End Time:

23:13:30

Time On Btm: **2006.02.10 @ 18:52:15**

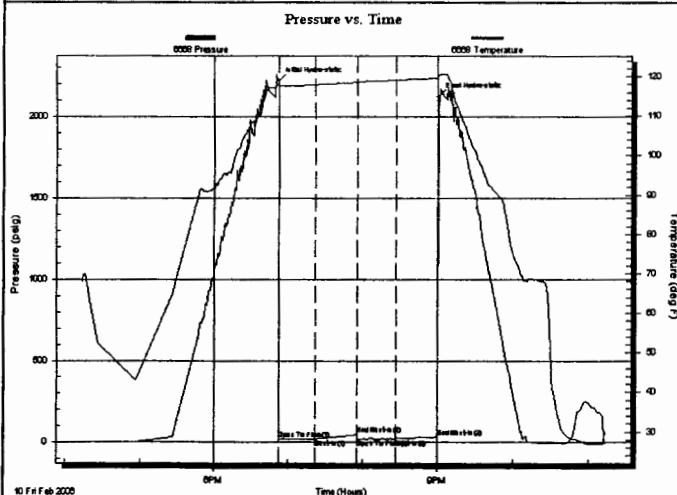
Time Off Btm: **2006.02.10 @ 21:00:30**

TEST COMMENT: **IF: Very weak blow @ .5", died after 20 minutes.**

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

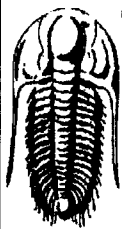
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.75	118.07	Initial Hydro-static
1	20.28	117.64	Open To Flow (1)
31	21.30	117.89	Shut-In(1)
63	47.63	118.49	End Shut-In(1)
64	22.15	118.48	Open To Flow (2)
95	22.52	119.04	Shut-In(2)
128	34.60	119.51	End Shut-In(2)
129	2124.56	120.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.02
0.00	No GIP	0.00

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.

1551 N. Waterfront Parkway
Suite 150
Wichita, KS 67206
ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24336

DST#: 3

Test Start: 2006.02.10 @ 16:14:15

Tool Information

Drill Pipe:	Length: 4480.00 ft	Diameter: 3.80 inches	Volume: 62.84 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 63.14 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4532.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4600.00 ft			
Interval between Packers:	68.00 ft			
Tool Length:	197.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Hydraulic tool	5.00			4520.00	
Safety Joint	2.00			4522.00	
Packer	10.00			4532.00	17.00 Bottom Of Top Packer
Stubb	1.00			4533.00	
Recorder	0.00	6668	Inside	4533.00	
Perforations	33.00			4566.00	
Blank Spacing	33.00			4599.00	
Recorder	0.00	13266	Outside	4599.00	
Blank Off Sub	1.00			4600.00	68.00 Tool Interval
Packer	5.00			4605.00	
Blank Spacing	99.00			4704.00	
Recorder	0.00	13769	Fluid	4704.00	
Bullnose	3.00			4707.00	
Shut In Tool	5.00			4712.00	112.00 Bottom Packers & Anchor

Total Tool Length: 197.00



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ATTN: Ken LeBlanc

Chain Gang #1

24-31s-12w-Barber-KS

Job Ticket: 24336

DST#: 3

Test Start: 2006.02.10 @ 16:14:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 9200.00 ppm

Filter Cake: 0.04 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.025
0.00	No GIP	0.000

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

