

DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

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

ATTN: Doug McGinness

15-21s-19w Pawnee Ks

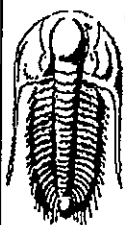
Powers#1

Start Date: 2011.01.21 @ 00:06:12

End Date: 2011.01.21 @ 06:51:57

Job Ticket #: 041603 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

CMX Inc.

1700 N. Waterfront Pkwy.
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ATTN: Doug McGinness

Powers#1

15-21s-19w Pawnee Ks

Job Ticket: 041603

DST#: 1

Test Start: 2011.01.21 @ 00:06:12

GENERAL INFORMATION:

Formation: Cherokee

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:56:27

Time Test Ended: 06:51:57

Interval: 4200.00 ft (KB) To 4230.00 ft (KB) (TVD)

Total Depth: 4230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Reference Elevations: 2139.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8167

Inside

Press@RunDepth: 684.95 psig @ 4201.00 ft (KB)

Start Date: 2011.01.21

End Date:

2011.01.21

Capacity: 8000.00 psig

Last Calib.: 2011.01.21

Start Time: 00:06:17

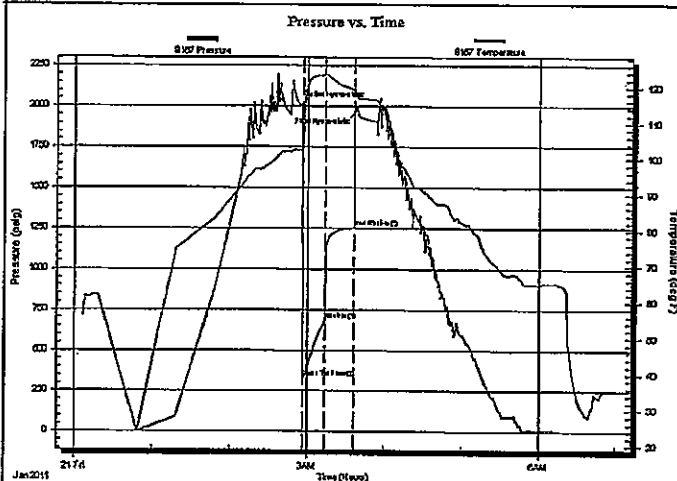
End Time:

06:51:56

Time On Blm: 2011.01.21 @ 02:54:27

Time Off Blm: 2011.01.21 @ 03:37:42

TEST COMMENT: IF: Strong blow . B.O.B. in 40 secs.
IS: Weak blow . 1/2 - 1".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.90	102.69	Initial Hydro-static
2	333.22	103.80	Open To Flow (1)
20	684.95	123.47	Shut-In(1)
42	1253.18	119.41	End Shut-In(1)
44	1972.33	117.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
875.00	GCW/w afew o specs 3%g 97%w	10.63
320.00	SO&GCMW 2%0 5%g 10%m 83%w	4.49
125.00	GCWM/w o specs 5%g 17%w 78%m	1.75

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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TOOL DIAGRAM

CMX Inc.

1700 N. Waterfront Pkwy.
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ATTN: Doug McGinness

Powers#1

15-21s-19w Pawnee Ks

Job Ticket: 041603

DST#:1

Test Start: 2011.01.21 @ 00:06:12

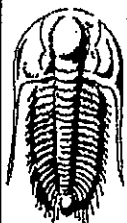
Tool Information

Drill Pipe:	Length: 3996.00 ft	Diameter: 3.80 inches	Volume: 56.05 bbl	Tool Weight: 24000.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 87000.00 lb
			Total Volume: 56.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4200.00 ft			Final 70500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4173.00	
Shut in tool	5.00			4178.00	
HMV	5.00			4183.00	
Jars	5.00			4188.00	
Safety Joint	3.00			4191.00	
Packer	4.00			4195.00	28.00 Bottom Of Top Packer
Packer	5.00			4200.00	
Stubb	1.00			4201.00	
Recorder	0.00	8167	Inside	4201.00	
Recorder	0.00	8370	Outside	4201.00	
Perforations	24.00			4225.00	
Bullnose	5.00			4230.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



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FLUID SUMMARY

CMX Inc.

Powers#1

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Bldg. 300, Ste. B.
Wichita KS 67206
ATTN: Doug McGinness

15-21s-19w Pawnee Ks
Job Ticket: 041603 DST#: 1
Test Start: 2011.01.21 @ 00:06:12

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:

53000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
875.00	GCW/w a few o specs 3%g 97%w	10.634
320.00	SO&GCMW 2%o 5%g 10%m 83%w	4.489
125.00	GCWM/w o specs 5%g 17%w 78%m	1.753

Total Length: 1320.00 ft

Total Volume: 16.876 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

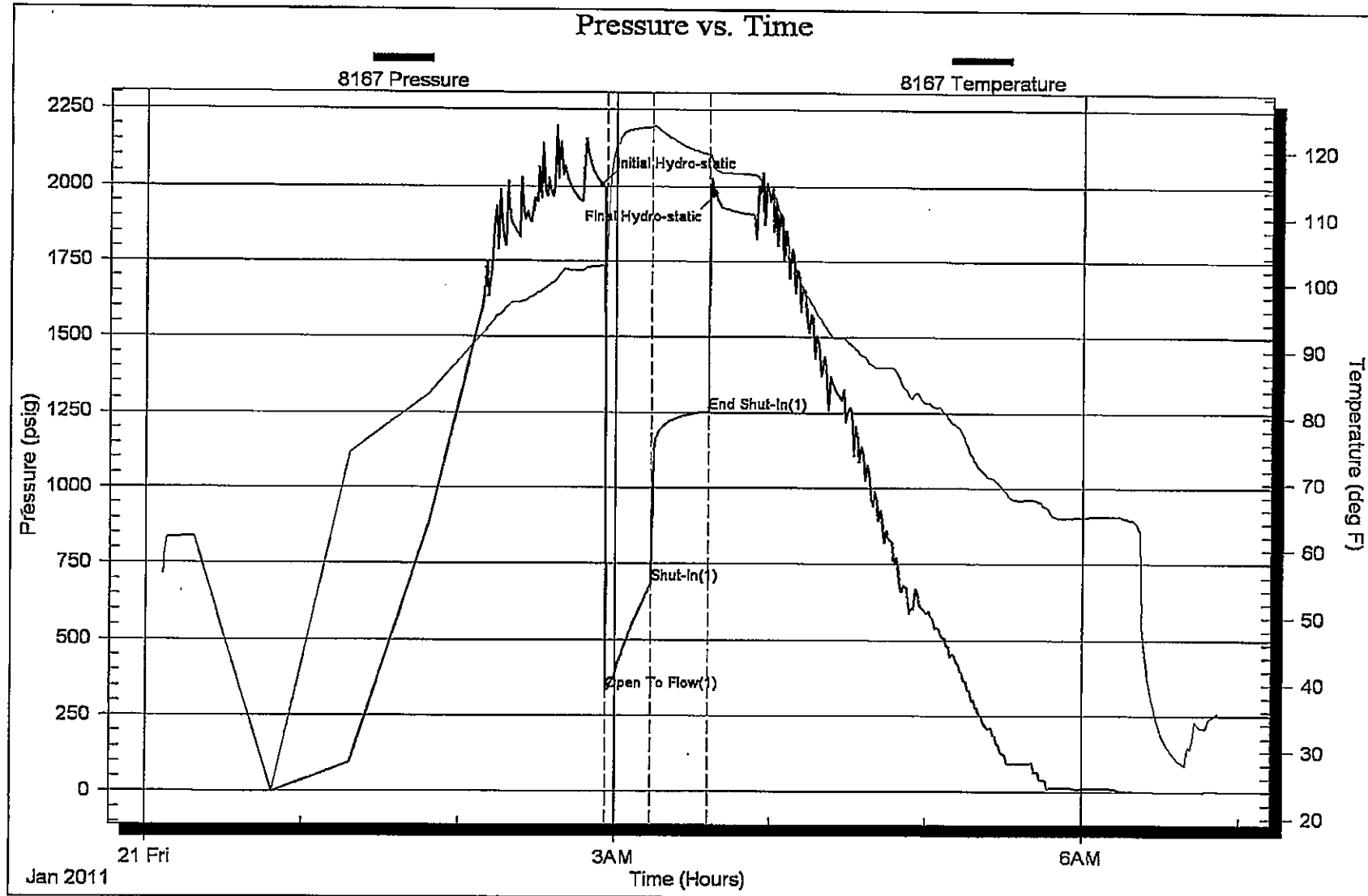
Recovery Comments: Rw .26ohms @ 40 deg

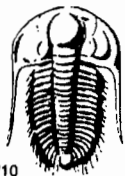
Serial #: 8167

Inside CMX Inc.

15-21s-19w Pawnee Ks

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 04160315315

4/10

Well Name & No. POWERS #1 Test No. 1 Date 1-21-11
Company CMX Inc. Elevation 2139 KB 2126 GL
Address 1700 N. WATERFRONT Pkwy. Bldg. 300, STE. B. WICHITA KS 67206
Co. Rep / Geo. Doug McGinness Rig Duke Drilling
Location: Sec. 15 Twp. 21S Rge. 19W Co. Pawnee State KS

Interval Tested 4200-4230 Zone Tested CHEROKEE
Anchor Length 30' Drill Pipe Run 3996 Mud Wt. 9.0
Top Packer Depth 4195 Drill Collars Run 180' Vis SS
Bottom Packer Depth 4200 Wt. Pipe Run 0 WL 9.600
Total Depth 4200 Chlorides 3800 ppm System LCM 0
Blow Description IF: STRONG BLOW. B.O.B. IN 40 SECS ISI: WEAK BLOW. 1/2-1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>Feet of GCWM/waspies</u>	<u>5</u>	<u>17</u>	<u>78</u>	<u>%mud</u>
<u>320</u>	<u>Feet of 50% GCWM</u>	<u>5</u>	<u>2</u>	<u>83</u>	<u>%mud</u>
<u>875</u>	<u>Feet of GCW/waspies</u>	<u>3</u>	<u>97</u>	<u>%mud</u>	<u>%mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1320 BHT 119 Gravity N/A API RW 26 @ 40 °F Chlorides 3800 ppm
(A) Initial Hydrostatic 2006 ☒ Test 1225⁰⁰ T-On Location 2236
(B) First Initial Flow 333 ☒ Jars 850⁰⁰ T-Started 0006
(C) First Final Flow 685 ☒ Safety Joint 75⁰⁰ T-Open 0256
(D) Initial Shut-In 1253 ☐ Circ Sub T-Pulled 0335
(E) Second Initial Flow ☐ Hourly Standby T-Out 0651
(F) Second Final Flow ☒ Mileage 140 175⁰⁰ Comments
(G) Final Shut-In ☐ Sampler
(H) Final Hydrostatic 1922 ☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

Initial Open 15
Initial Shut-In 20
Final Flow
Final Shut-In

Approved By

Our Representative

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