

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **CMX, Incorporated**

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

12-35s-14w Barber

Strawn #1

Start Date: 2004.01.18 @ 12:23:39

End Date: 2004.01.18 @ 22:06:54

Job Ticket #: 18010 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

CMX, Incorporated

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

Strawn #1

12-35s-14w Barber

Job Ticket: 18010 **DST#: 1**

Test Start: 2004.01.18 @ 12:23:39

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:01:24
Time Test Ended: 22:06:54

Test Type: Conventional Bottom Hole
Tester: Nathan
Unit No: 16

Interval: 4860.00 ft (KB) To 4890.00 ft (KB) (TVD)
Total Depth: 4890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

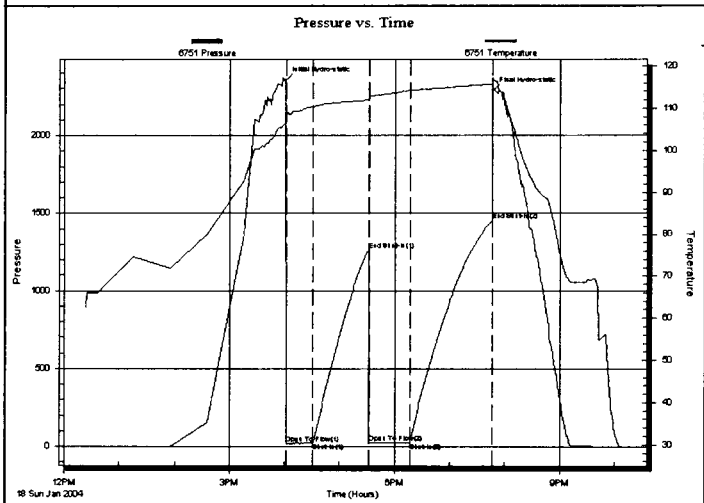
Reference Elevations: 1592.00 ft (KB)
1581.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 **Inside**

Press@RunDepth: 25.75 psig @ 4861.00 ft (KB)
Start Date: 2004.01.18 End Date: 2004.01.18
Start Time: 12:23:49 End Time: 22:06:53

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2004.01.18 @ 16:00:39
Time Off Btm: 2004.01.18 @ 19:46:24

TEST COMMENT: IF- Good blow building O.B.B. in 4 minutes 15 seconds
ISI- No Blow
FF- Good blow O.B.B. as soon as tool opened
FSI- Weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.16	106.30	Initial Hydro-static
1	18.16	108.14	Open To Flow (1)
30	23.72	110.42	Shut-In(1)
91	1263.66	111.99	End Shut-In(1)
92	22.33	112.37	Open To Flow (2)
136	25.75	114.26	Shut-In(2)
226	1450.83	115.72	End Shut-In(2)
226	2284.57	117.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	SGCM 99%mud 1%gas	0.45

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Incorporated

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

Strawn #1

12-35s-14w Barber

Job Ticket: 18010 **DST#: 1**

Test Start: 2004.01.18 @ 12:23:39

Tool Information

Drill Pipe:	Length:	4851.00 ft	Diameter:	3.80 inches	Volume:	68.05 bbl	Tool Weight:		2400.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		22000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		84000.00 lb
					Total Volume:	68.05 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight:	Initial	68000.00 lb
Depth to Top Packer:		4860.00 ft						Final	71000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		30.00 ft							
Tool Length:		57.00 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			4834.00		
Shut In Tool	5.00			4839.00		
Hydraulic tool	5.00			4844.00		
Jars	5.00			4849.00		
Safety Joint	2.00			4851.00		
Packer	4.00			4855.00	27.00	Bottom Of Top Packer
Packer	5.00			4860.00		
Stubb	1.00			4861.00		
Recorder	0.00	6751	Inside	4861.00		
Perforations	26.00			4887.00		
Recorder	0.00	13630	Outside	4887.00		
Bullnose	3.00			4890.00	30.00	Bottom Packers & Anchor
Total Tool Length:	**57.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX, Incorporated

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

Strawn #1

12-35s-14w Barber

Job Ticket: 18010 **DST#: 1**

Test Start: 2004.01.18 @ 12:23:39

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:	18000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.14 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5600.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

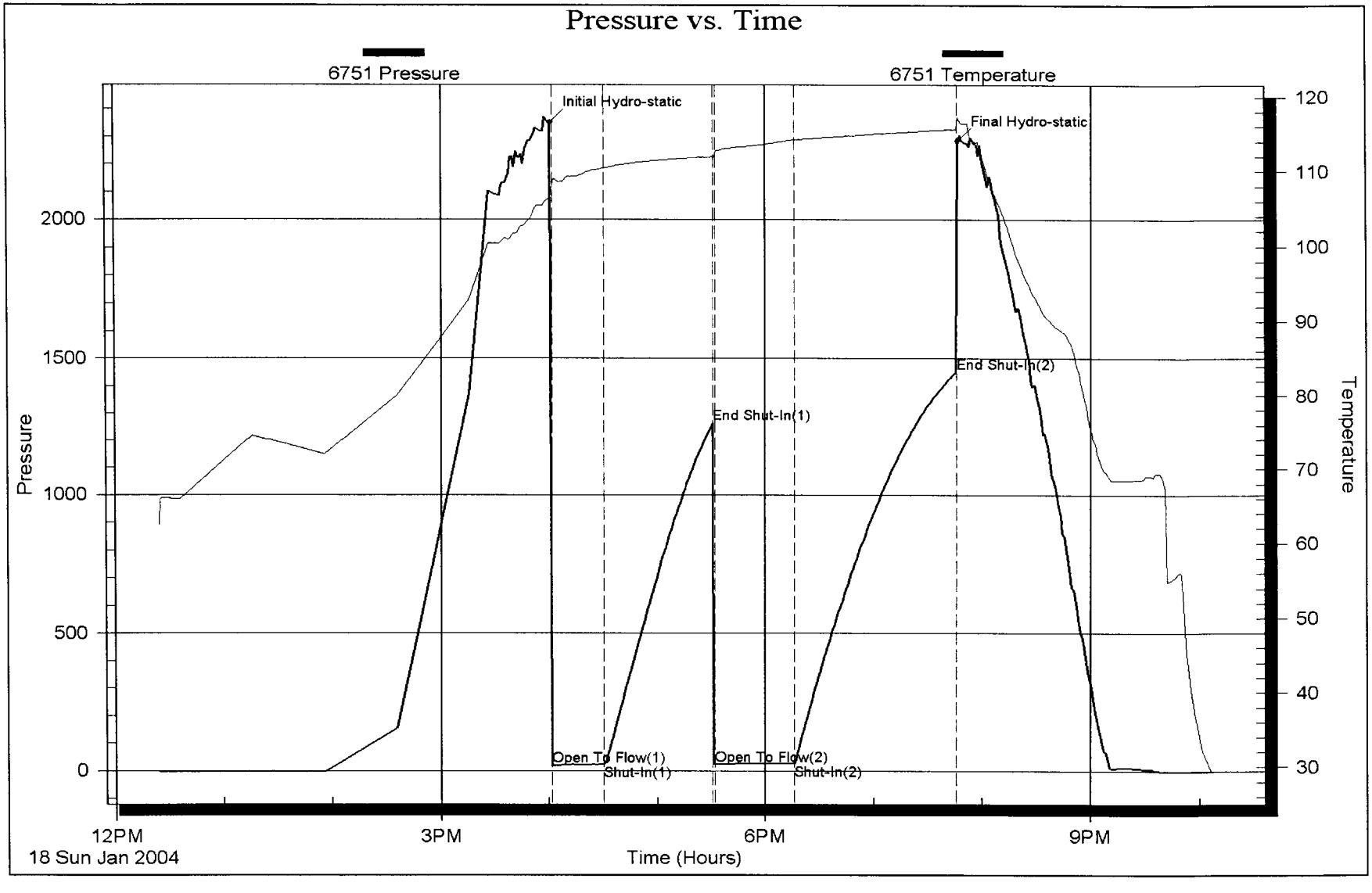
Length ft	Description	Volume bbl
32.00	SGCM 99%mud 1%gas	0.449

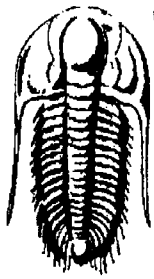
Total Length: 32.00 ft Total Volume: 0.449 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6751 Pressure
6751 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
30
12PM
18 Sun Jan 2004
3PM
6PM
9PM
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **CMX, Incorporated**

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

12-35s-14w Barber

Strawn #1

Start Date: 2004.01.19 @ 20:18:47
End Date: 2004.01.20 @ 06:44:47
Job Ticket #: 18011 DST #: 2

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

DRILL STEM TEST REPORT

CMX, Incorporated

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

Strawn #1

12-35s-14w Barber

Job Ticket: 18011 **DST#: 2**

Test Start: 2004.01.19 @ 20:18:47

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:43:02
Time Test Ended: 06:44:47

Test Type: Conventional Bottom Hole
Tester: Nathan
Unit No: 16

Interval: 4908.00 ft (KB) To 5000.00 ft (KB) (TVD)
Total Depth: 5000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

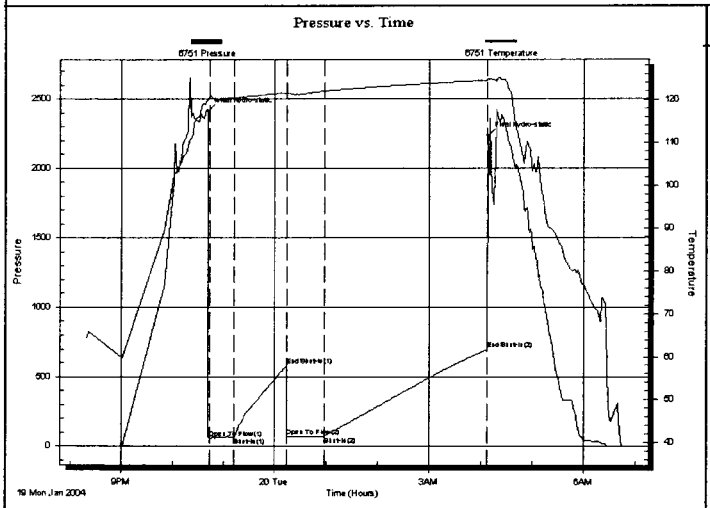
Reference Elevations: 1592.00 ft (KB)
1581.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 **Inside**

Press@RunDepth: 69.74 psig @ 4977.00 ft (KB)
Start Date: 2004.01.19 End Date: 2004.01.20
Start Time: 20:18:57 End Time: 06:44:46

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2004.01.19 @ 22:41:17
Time Off Btm: 2004.01.20 @ 04:07:47

TEST COMMENT: IF- Good blow building O.B.B. in 8 minutes 20 seconds
ISI- No blow
FF-Good blow O.B.B. in 10 seconds
FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.30	120.05	Initial Hydro-static
2	54.16	120.90	Open To Flow (1)
32	63.84	120.56	Shut-In(1)
93	580.25	121.72	End Shut-In(1)
93	68.77	121.65	Open To Flow (2)
137	69.74	122.04	Shut-In(2)
326	697.59	124.58	End Shut-In(2)
327	2234.40	124.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	SGCM 99%Mud 1%Gas	1.33

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Incorporated

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

Strawn #1

12-35s-14w Barber

Job Ticket: 18011 **DST#: 2**

Test Start: 2004.01.19 @ 20:18:47

Tool Information

Drill Pipe:	Length:	4909.00 ft	Diameter:	3.80 inches	Volume:	68.86 bbl	Tool Weight:		2400.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		22000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		120000.0 lb
					Total Volume:	68.86 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	76000.00 lb
Depth to Top Packer:		4908.00 ft						Final	76000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		92.00 ft							
Tool Length:		119.00 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			4882.00		
Shut In Tool	5.00			4887.00		
Hydraulic tool	5.00			4892.00		
Jars	5.00			4897.00		
Safety Joint	2.00			4899.00		
Packer	4.00			4903.00	27.00	Bottom Of Top Packer
Packer	5.00			4908.00		
Stubb	1.00			4909.00		
Perforations	4.00			4913.00		
Change Over Sub	1.00			4914.00		
Blank Spacing	62.00			4976.00		
Change Over Sub	1.00			4977.00		
Recorder	0.00	6751	Inside	4977.00		
Perforations	20.00			4997.00		
Recorder	0.00	13630	Outside	4997.00		
Bullnose	3.00			5000.00	92.00	Bottom Packers & Anchor
Total Tool Length:	**119.00**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

CMX, Incorporated

150 N. Main Suite 1026
Wichita, KS 67202

ATTN: Doug McGinnes

Strawn #1

12-35s-14w Barber

Job Ticket: 18011 **DST#: 2**

Test Start: 2004.01.19 @ 20:18:47

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:	11000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.36 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2600.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

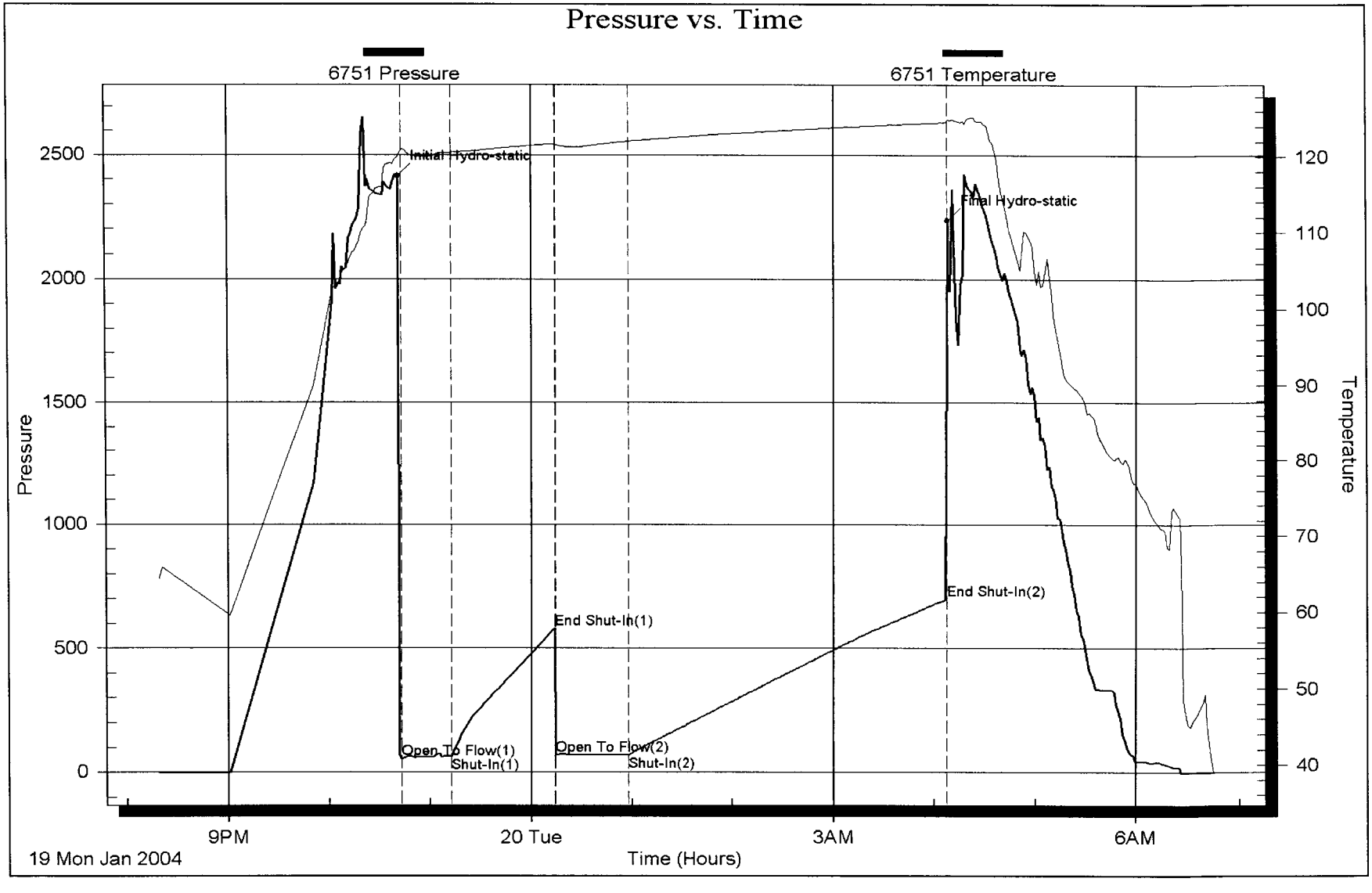
Length ft	Description	Volume bbl
95.00	SGCM 99%Mud 1%Gas	1.333

Total Length: 95.00 ft Total Volume: 1.333 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6751 Pressure
6751 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
9PM
20 Tue
3AM
6AM
19 Mon Jan 2004
Time (Hours)

INV 0154

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18010

05/03

Test Ticket

Well Name & No. Strawn #1 Test No. 1 Date 1/18/04

Company CMX, Inc Zone Tested Cherokee

Address 150 N. Main Suit 1026 Wichita, Ks 67202 Elevation 1592 KB 1581 GL

Co. Rep / Geo. Doug McGinness Cont. Duke Drlg #5 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 12 Twp. 35S Rge. 14W Co. Barber State Ks

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4860 – 4890 Initial Str Wt./Lbs. 68,000 Unseated Str Wt/Lbs. 71,000

Anchor Length 30 Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 84,000

Top Packer Depth 4855 Tool Weight 2400

Bottom Packer Depth 4860 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4890 Wt. Pipe Run –0– Drill Collar Run –0–

Mud Wt. 9.2 LCM –0– Vis. 55 WL 11.2 Drill Pipe Size 4 1/2 Ft. Run 4851

Blow Description IF- Good blow; building O.B.B in 4min 15sec.
ISI - No blow
FF- Good blow O.B.B as soon as tool opened
FSI - Weak surface blow

Recovery - Total Feet 32 GIP 1134 Ft. in DC –0– Ft. in DP 32

Rec. 32	Feet of SGCM	/ %gas	%oil	%water	99	%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

BHT 116 °F Gravity ~~ °API D @ _____ °F Corrected Gravity _____ °API

RW .980 @ 25.8 °F Chlorides 18,000 ppm Recovery _____ Chlorides 5,600 ppm System

	AK-1 Alpine				
(A)Initital Hydrostatic Mud	2350 PSI	Recorder No.	6751	Test	bottom hole
(B) First Initial Flow Pressure	18 PSI	(depth)	4861	Elec. Rec.	✓
(C) First Final Flow Pressure	24 PSI	Recorder No.	13630	Jars	✓
(D) Initial Shut-In Pressure	1264 PSI	(depth)	4887	Safety Jt.	✓
(E) Second Initial Flow Pressure	22 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	26 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	1451 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud	2285 PSI	Initial Shut-In	60	Ext. Packer	
		Final Flow	45	Shale Packer	
		Final Shut-In	90	Mileage	67
		T-On Location	10:15	Sub Total:	1313.90
		T-Started	12:23	Std. By	82.50
		T-Open	16:00	Other	
		T-Pulled	19:45	Total:	1396.40
		T-Out	22:06		

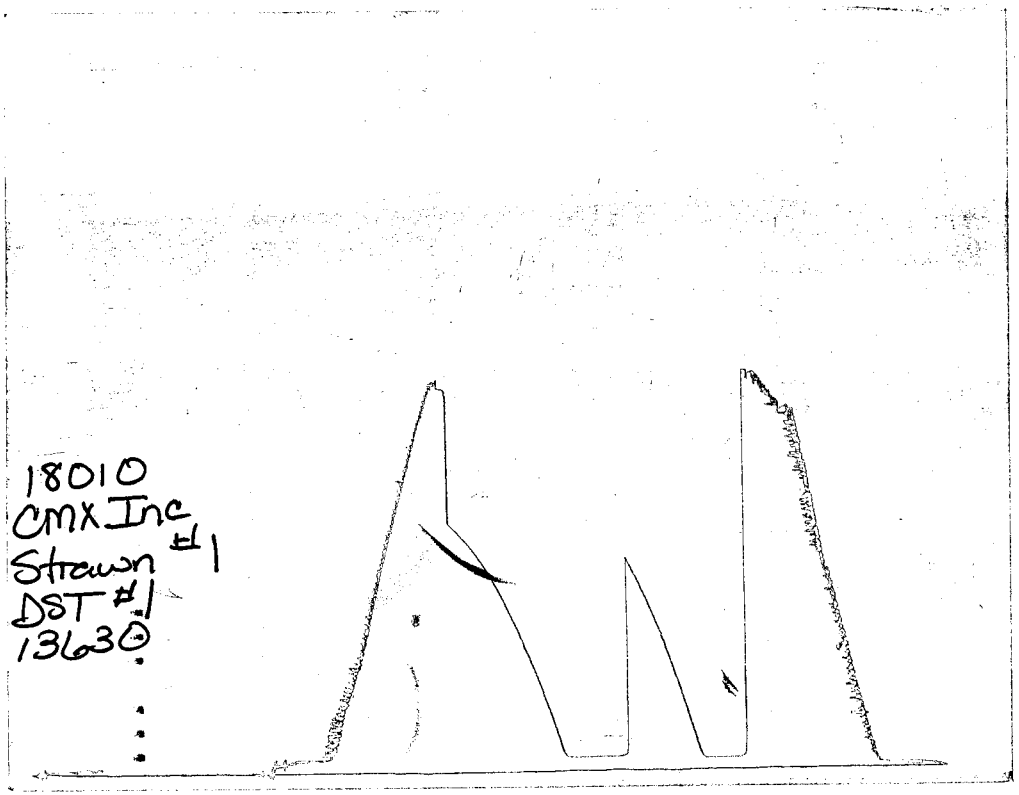
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____

Our Representative Jonathan Budig

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18011

05/03

Test Ticket

Well Name & No. Strawn #1 Test No. 2 Date 1/19/04

Company CMX, Inc Zone Tested Miss

Address 150 N. Main Suite 1020 Wichita, KS 67202 Elevation 1592 KB 1581 GL

Co. Rep / Geo. Doug McGinness Cont. Duke Drlg #5 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 12 Twp. 35S Rge. 14W Co. Barber State KS

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4908 – 5000 Initial Str Wt./Lbs. 76,000 Unseated Str Wt/Lbs. 76,000

Anchor Length 92 Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs 22,000

Top Packer Depth 4903 Tool Weight 2400

Bottom Packer Depth 4908 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 5000 Wt. Pipe Run –0– Drill Collar Run –0–

Mud Wt. 9.2 LCM 2# Vis. 50 WL 10.4 Drill Pipe Size 4½ Ft. Run 4909

Blow Description IF- Good blow building O.B.B in 8min 20sec

ISI- No blow

FF- Good blow O.B.B in 10 seconds

FSI- No blow

Recovery - Total Feet 95 GIP 882 Ft. in DC –0– Ft. in DP 95

Rec. 95	Feet of SGCM	1 %gas	%oil	%water	99 %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

BHT 124 °F Gravity ~ °API D @ _____ °F Corrected Gravity _____ °API

RW 1.37 @ 29.0 °F Chlorides 11,000 ppm Recovery _____ Chlorides 2,600 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		2417 PSI	Recorder No.	6751	Test	bottom hole
(B) First Initial Flow Pressure		54 PSI	(depth)	4977	Elec. Rec.	✓
(C) First Final Flow Pressure		64 PSI	Recorder No.	13630	Jars	✓
(D) Initial Shut-In Pressure		580 PSI	(depth)	4997	Safety Jt.	✓
(E) Second Initial Flow Pressure		69 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure		70 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		698 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		2381 PSI	Initial Shut-In	60	Ext. Packer	
			Final Flow	45	Shale Packer	
			Final Shut-In	180	Mileage	67
			T-On Location	19:45	Sub Total:	1313.90
			T-Started	20:18	Std. By	2 60
			T-Open	22:41	Other	
			T-Pulled	03:56	Total:	1373.90
			T-Out	06:44		

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Approved By _____

Our Representative Doug McGinness

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

