

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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 cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	CMX, Inc.
Well Name	Money Shot 1-21
Doc ID	1308662

All Electric Logs Run

Neutron Density
Induction
Micro Resistivity
Sonic





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	05/12/2016
<b>INVOICE NUMBER</b>			
<b>92121041</b>			

**Pratt** (620) 672-1201 J LEASE NAME Money Shot 1-21  
 B CMX INC O LOCATION  
 I 1700 N WATERFRONT PKWY BLDG 300 STE B B COUNTY Pratt  
 L WICHITA S STATE KS  
 L KS US 67206 T JOB DESCRIPTION Cement-New Well Casing/Pi  
 T O ATTN: ACCOUNTS PAYABLE E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40934596	27463		Net - 30 days	06/11/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 05/02/2016 to 05/02/2016</b>				
0040934596				
171813381A Cement-New Well Casing/Pi 05/02/2016 Cement 8 5/8 Surface				
60/40 POZ	375.00	EA	6.60	2,475.00 T
Celloflake	94.00	EA	2.04	191.29 T
Calcium Chloride	969.00	EA	0.58	559.60 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	88.00	88.00
"Unit Mileage Chg (PU, cars one way)"	10.00	MI	2.48	24.75
Heavy Equipment Mileage	20.00	MI	4.13	82.50
162-"Propp & Bulk Del. Chgs.per ton mil	1.00	EA	222.06	222.06
Blending & Mixing Service Charge	375.00	BAG	0.77	288.75
Plug Container Util. Chg.	1.00	EA	137.50	137.50
Depth Charge; 0-500'	1.00	EA	550.00	550.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,715.70
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	266.14
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,981.84
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



Customer <b>CMX Inc</b>	Lease No.	Date <b>5-2-16</b>	
Lease <b>Money Shot</b>	Well # <b>1-21</b>		
Field Order # <b>13381</b>	Station <b>Pratt KS</b>	Casing <b>3 7/8</b>	Depth <b>396</b>
Type Job <b>3 7/8 Surface</b>	Formation	County <b>Pratt</b>	State <b>KS</b>
		Legal Description <b>21-22-14</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>3 7/8</b>				<b>375 sk 60-40 perc</b>				
Depth <b>396</b>	Depth	From	To	Pre Pad	Max	<b>500</b>	5 Min.	
Volume <b>24</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>300</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>396</b>	Packer Depth	From	To	Flush <b>H2O</b>	Gas Volume		Total Load	

Customer Representative <b>Galen Roub</b>	Station Manager <b>K Gerald</b>	Treater <b>D Smith</b>
Service Units <b>1/2</b>	<b>27413</b>	<b>19713</b>
Driver Names <b>Scott</b>	<b>Buly</b>	<b>D</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1300					Called Out
1400					Center 1/4 Ticks safety mitg Peg on Bottom Break Circ 10/Rig
1736	300		5	5	H2O Spacti-
1732					Mix 375 sk 60-40 perc 3% cc 1/4
1745			30.8		flush mixing cur
1747					Release Top wood Plug
1749	150			4	st Disp 1/4 H2O
1800	200		24		Drop In Close In Minutelli
					Circ 3 Bbls Out = 14 min
					wait 20 min good cur in collar
					Sub complete
					Thank you
					Scott



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	05/22/2016
<b>INVOICE NUMBER</b>			
<b>92128944</b>			

Pratt (620) 672-1201  
 B CMX INC  
 I 1700 N WATERFRONT PKWY BLDG 300 STE B  
 L WICHITA  
 L KS US 67206  
 T  
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Money Shot 1-21  
 O **LOCATION**  
 B **COUNTY** Pratt  
 S **STATE** KS  
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi  
 T **JOB CONTACT**  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40936436	19843		Net - 30 days	06/21/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 05/13/2016 to 05/13/2016</b>				
0040936436				
171813633A Cement-New Well Casing/Pi 05/13/2016 Cement 5 1/2" Longstring				
AA2 Cement	175.00	EA	9.35	1,636.25 T
60/40 POZ	50.00	EA	6.60	330.00 T
Celloflake	44.00	EA	2.04	89.54 T
Salt	970.00	EA	0.28	266.75 T
Gypsum	825.00	EA	0.41	340.31 T
FLA-322	132.00	EA	4.13	544.50 T
Gilsonite	875.00	EA	0.37	322.44 T
Mud Flush	500.00	EA	0.83	412.50 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	220.00	220.00
"Cmt. Shoe Packer Type, 5 1/2" (Blue) "	1.00	EA	1,540.00	1,540.00
"Turbolizer, 5 1/2" (Blue)"	10.00	EA	60.50	605.00
"5 1/2" Basket (Blue)"	1.00	EA	159.50	159.50
"Unit Mileage Chg (PU, cars one way)"	10.00	MI	2.48	24.75
Heavy Equipment Mileage	20.00	MI	4.13	82.50
"Proppant & Bulk Del. Chgs., per ton mil	104.00	EA	1.38	143.00
Depth Charge; 4001'-5000'	1.00	EA	1,386.00	1,386.00
Blending & Mixing Service Charge	225.00	BAG	0.77	173.25
Plug Container Util. Chg.	1.00	EA	137.50	137.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>8,510.04</b>
<b>BASIC ENERGY SERVICES,LP</b>	<b>BASIC ENERGY SERVICES,LP</b>	<b>TAX</b>	<b>325.24</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>8,835.28</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

21-27-14

FIELD SERVICE TICKET

1718 13633 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>5/13/2016</u> DISTRICT <u>Pratt, KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>Cmx Inc</u>		LEASE <u>Money Shot</u> WELL NO. <u>1-21</u>							
ADDRESS		COUNTY <u>Pratt</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Darin, J. Belle, Tom</u>							
AUTHORIZED BY		JOB TYPE: <u>CNW / 5 1/2 Longstrins</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19843</u>	<u>1 1/4</u>						<u>5/13</u>	<u>PM</u>	<u>1:00</u>
<u>21010</u>	<u>3/4</u>					ARRIVED AT JOB	<u>5/13</u>	<u>AM</u>	<u>2:30</u>
						START OPERATION	<u>5/13</u>	<u>AM</u>	<u>6:15</u>
						FINISH OPERATION	<u>5/13</u>	<u>PM</u>	<u>7:30</u>
						RELEASED	<u>5/13</u>	<u>AM</u>	<u>8:30</u>
						MILES FROM STATION TO WELL			<u>14</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Kurt Burk  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	175		2,975 00
CP103	60/40 P02	SK	50		600 00
CC102	Cellofibre	Lb	44		162 80
CC111	Sgt	Lb	970		485 00
CC113	Gypsum	Lb	825		618 75
CC129	FLA-322	Lb	132		990 00
CC201	Gilsonite	Lb	875		586 25
CF607	19x24 Down Plus & Baffle, 5 1/2" (Blue)	ES	1		400 00
CF1051	Cementing Shoe Packer Type, 5 1/2" (Blue)	ES	1		2,800 00
CF1651	Turbolizer, 5 1/2" (Blue)	ES	10		1,100 00
CF1901	5 1/2" Bgsheet (Blue)	ES	1		290 00
CC151	mod Flush	Gal	500		750 00
F100	unit mileage charge - pickups, SMS, US, etc	M	10		45 00
F101	Heavy Equipment Mileage	M	20		150 00
F113	PROPAGENT Gas Bulk Delivery Charges <sup>Region</sup>	Toln	104		260 00
CF205	Depth Charge 400' - 5,000'	4hr	1		2,520 00
CF240	Blending & Mixing Service Charge	SK	225		315 00
CF504	PLUS container ut. 1.29770n Charge	Job	1		250 00
S003	Service Supervisor, Plus 8 hrs. on loc	ES	1		175 00
SUB TOTAL					15,472 80

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
DISCOUNT TOTAL		<u>44</u>	<u>8,510 04</u>

SERVICE REPRESENTATIVE Kevin Escobedo THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Kurt Burk  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <b>CMX Inc</b>	Lease No.	Date <b>5/13/2016</b>
Lease <b>Money Shot</b>	Well # <b>1-21</b>	
Field Order # <b>18633</b>	Station <b>Pratt, KS</b>	Casing <b>5 1/2</b>
		Depth <b>4697</b>
Type Job <b>CNW - LONGSTRENGTH</b>	Formation <b>TD-4780</b>	Legal Description <b>21-27-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2</b>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <b>4697</b>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <b>112</b>	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <b>4676</b>	Packer Depth	From	To	Flush <b>Freshwater</b>	Gas Volume			Total Load

Customer Representative <b>Keith</b>	Station Manager <b>Kevin Gordley</b>	Treater <b>Darin Franklin</b>
Service Units <b>92911 84981 19843 19959 21010</b>		
Driver Names <b>Darin J. Bailey, Bailey, Todd, Todd</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30pm					on location / Safety meeting 5 1/2 Casing 15.5# 4697' T-1,3,5,7,9,11,13,15,17,19 B-#2 175SK PAZ cement, 10% SS1, 10% Gypsum • 8% flg-322, 5H/sk silsonite, 1/2 #/sk cell pipe 14.8 pps, 1.54 ve.10, 6.63 water
5:15pm					Pipe on bottom & break circulation
6:15pm	200		5	5	Pump 5bb's water
	200		12	5	Pump 12bb's Flush
	200		5	5	Pump 5 bb's water
	300		48	5	mix 175SK cement
					Shut down
					Wash pump & lines
					Release Plug
	100		0	5	Start displacement
	400		76	5	Lift Pressure
	700		100	3	Slow Rate
7:00pm	1700		110	3	Bump Plug
					Release
	100		12	3	Plug Set & make holes
7:30pm					Job Complete / Darin & crew



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206

ATTN: Ken LeBlanc

### **Money Shot #1-21**

#### **21-27s-14w Pratt,KS**

Start Date: 2016.05.07 @ 20:23:39

End Date: 2016.05.08 @ 01:44:24

Job Ticket #: 57945                      DST #: 1

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

Printed: 2016.05.13 @ 08:42:37



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc.  
1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**21-27s-14w Pratt,KS**

**Money Shot #1-21**

Job Ticket: 57945

**DST#: 1**

Test Start: 2016.05.07 @ 20:23:39

## GENERAL INFORMATION:

Formation: **LKC. B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:46:09

Time Test Ended: 01:44:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 80

**Interval: 3947.00 ft (KB) To 3962.00 ft (KB) (TVD)**

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3962.00 ft (KB) (TVD)

1991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 13.00 ft

**Serial #: 9124 Outside**

Press@RunDepth: psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.07 End Date: 2016.05.08

Last Calib.: 2016.05.08

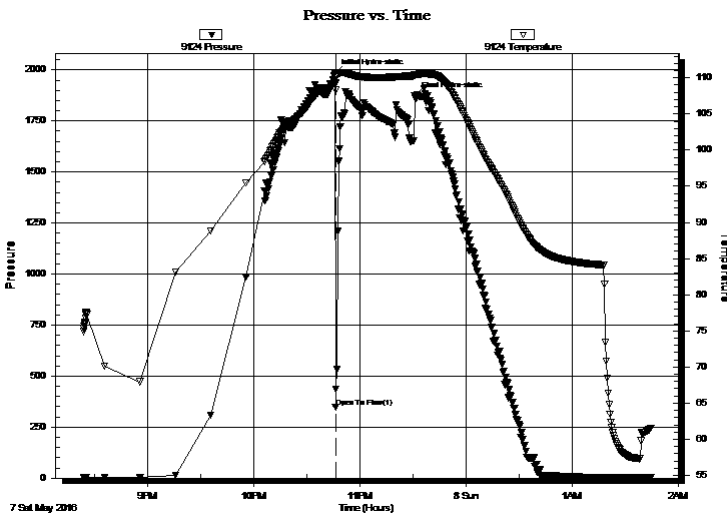
Start Time: 20:23:44 End Time: 01:44:23

Time On Btm: 2016.05.07 @ 22:45:54

Time Off Btm: 2016.05.07 @ 23:30:54

**TEST COMMENT:** IF:Weak blow . 2" decreasing.  
IS:No blow .  
FF:Very weak blow .(surface) Dead in 6 mins. FSI:None  
Comment:10 - 12 ft. of hard fill on btm. Slid tool 4 - 5 ft.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.11	109.18	Initial Hydro-static
1	346.34	108.31	Open To Flow (1)
45	1871.28	110.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Heavy gritty mud	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc.

**21-27s-14w Pratt, KS**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57945

**DST#: 1**

Test Start: 2016.05.07 @ 20:23:39

## Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 53.43 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3947.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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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Change Over Sub	1.00			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Safety Joint	3.00			3938.00	
Packer	4.00			3942.00	23.00 Bottom Of Top Packer
Packer	5.00			3947.00	
Stubb	1.00			3948.00	
Recorder	0.00	9124	Outside	3948.00	
Recorder	0.00	6798	Inside	3948.00	
Perforations	9.00			3957.00	
Bullnose	5.00			3962.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc.

**21-27s-14w Pratt,KS**

1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57945

**DST#: 1**

Test Start: 2016.05.07 @ 20:23:39

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 41.00 sec/qt

Water Loss: 9.57 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4800.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 4800 ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Heavy gritty mud	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

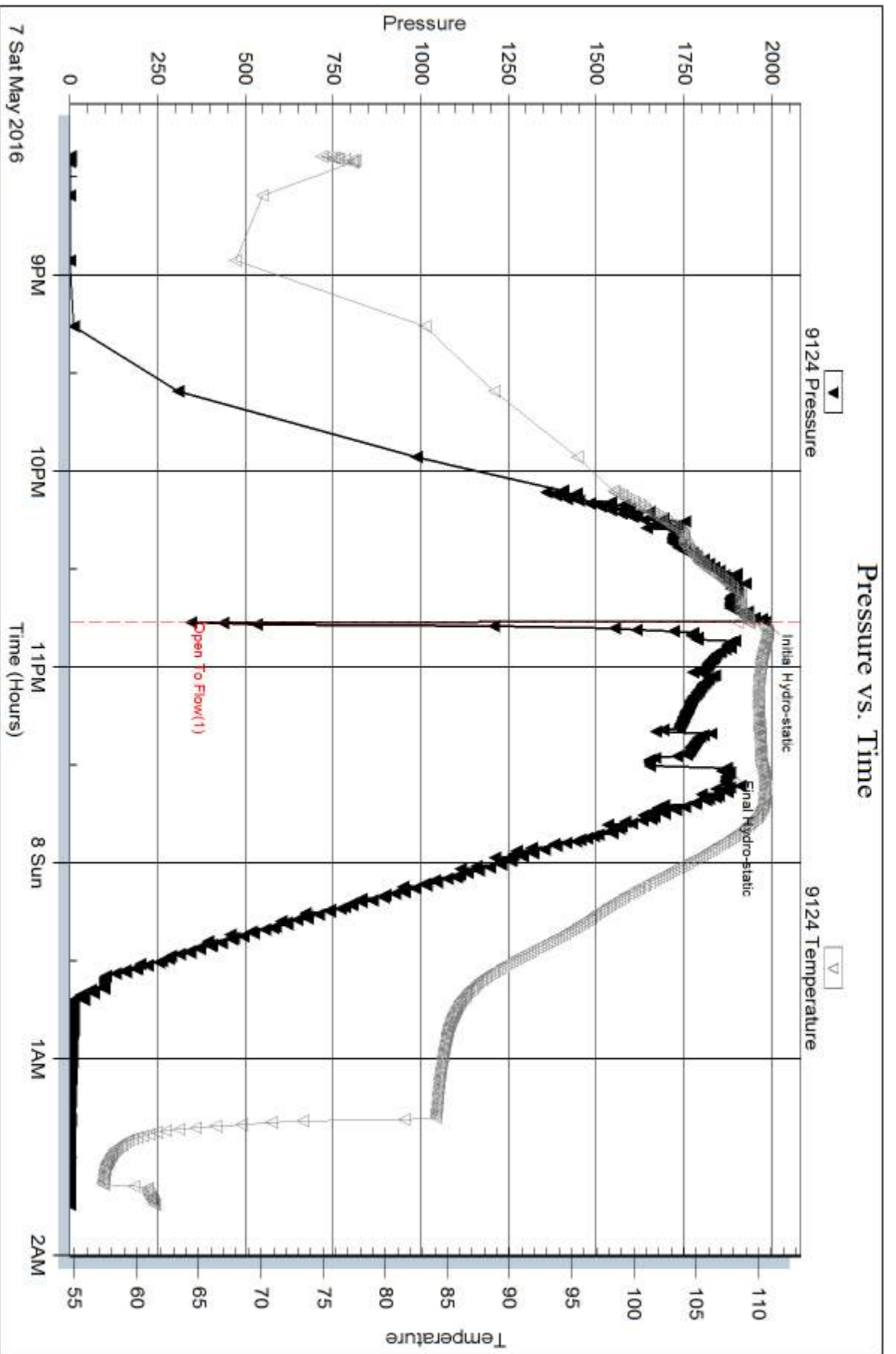
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





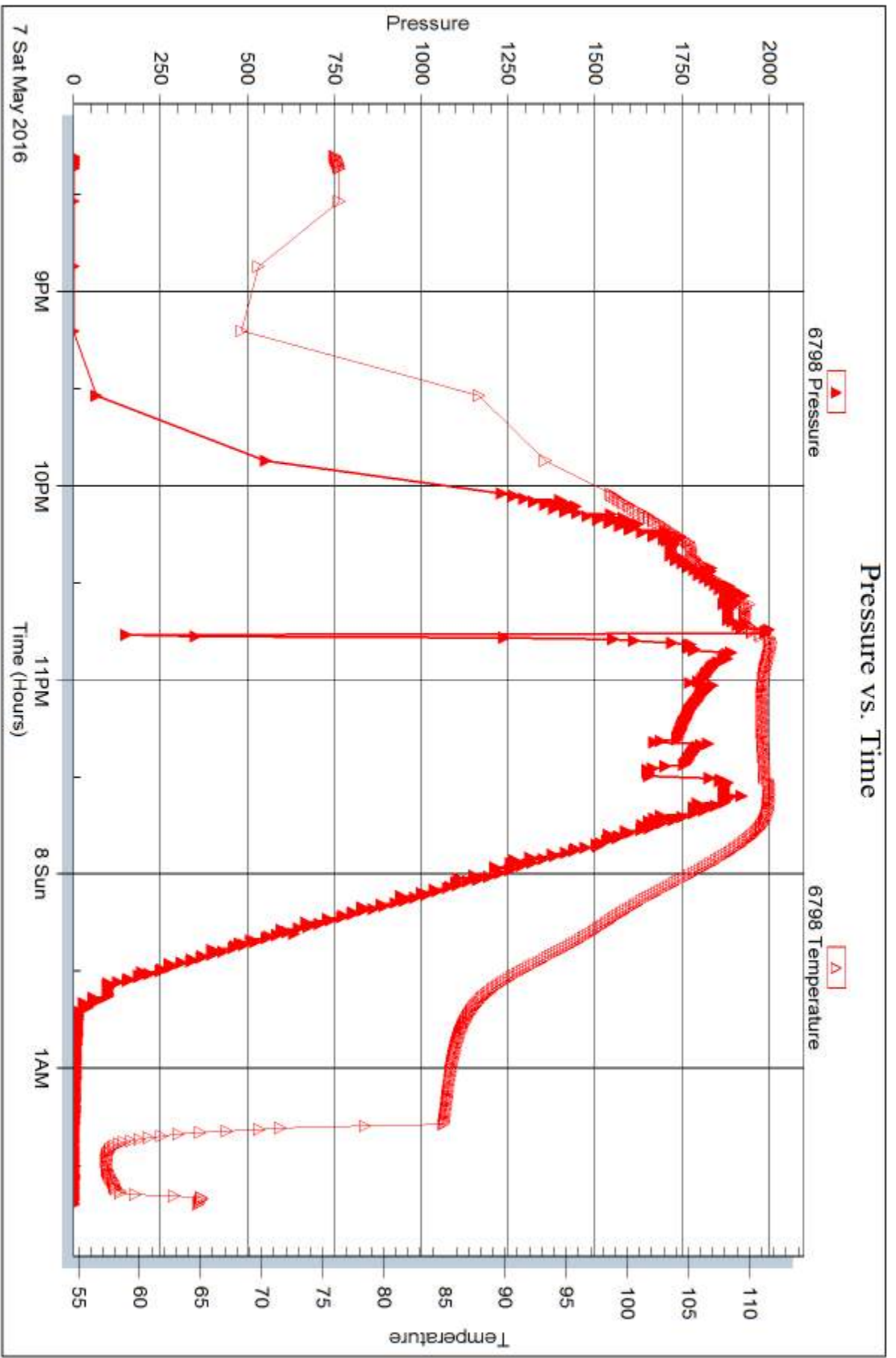
Serial #: 6798

Inside

CMX Inc.

Money Shot #1-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57945

Printed: 2016.05.13 @ 08:42:39



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206

ATTN: Ken LeBlanc

### **Money Shot #1-21**

#### **21-27s-14w Pratt,KS**

Start Date: 2016.05.08 @ 07:07:20

End Date: 2016.05.08 @ 15:00:50

Job Ticket #: 57946                      DST #: 2

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

Printed: 2016.05.13 @ 08:41:47



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc.

**21-27s-14w Pratt,KS**

1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57946

**DST#: 2**

Test Start: 2016.05.08 @ 07:07:20

## GENERAL INFORMATION:

Formation: **LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:03:20

Time Test Ended: 15:00:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 80

**Interval: 3947.00 ft (KB) To 3962.00 ft (KB) (TVD)**

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3962.00 ft (KB) (TVD)

1991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

**Serial #: 9124 Outside**

Press@RunDepth: 78.73 psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.08

End Date:

2016.05.08

Last Calib.:

2016.05.08

Start Time:

07:07:25

End Time:

15:00:49

Time On Btm:

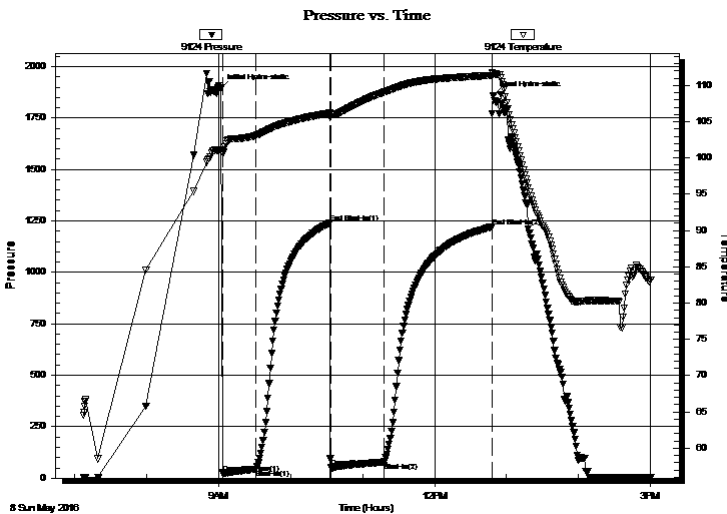
2016.05.08 @ 09:01:50

Time Off Btm:

2016.05.08 @ 12:49:05

**TEST COMMENT:** IF:Strong blow . B.O.B. in 8 1/2 mins.  
IS:Weak blow . 1/2 - 3/4".  
FF:Fair to strong blow . B.O.B. in 13 mins.  
FS:Weak blow . 1/2 - 3/4".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.14	101.10	Initial Hydro-static
2	23.59	100.77	Open To Flow (1)
30	44.26	103.13	Shut-In(1)
91	1239.75	106.19	End Shut-In(1)
92	50.91	105.93	Open To Flow (2)
136	78.73	109.07	Shut-In(2)
226	1220.86	111.41	End Shut-In(2)
228	1859.63	111.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
32.00	OCMW 5%o 19%m 76%w	0.16
93.00	GMCO 30%g 33%m 37%o	0.46
10.00	OCM 18%o 82%m	0.05
0.00	505 ft.of GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc.

**21-27s-14w Pratt, KS**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57946

**DST#: 2**

Test Start: 2016.05.08 @ 07:07:20

## Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: 53.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3947.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Safety Joint	3.00			3938.00	
Packer	4.00			3942.00	23.00 Bottom Of Top Packer
Packer	5.00			3947.00	
Stubb	1.00			3948.00	
Recorder	0.00	9124	Outside	3948.00	
Recorder	0.00	6798	Inside	3948.00	
Perforations	9.00			3957.00	
Bullnose	5.00			3962.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc.

**21-27s-14w Pratt,KS**

1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57946

**DST#: 2**

Test Start: 2016.05.08 @ 07:07:20

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 7.97 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 4500.00 ppm  
Filter Cake: 0.20 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 70000 ppm

## Recovery Information

Recovery Table

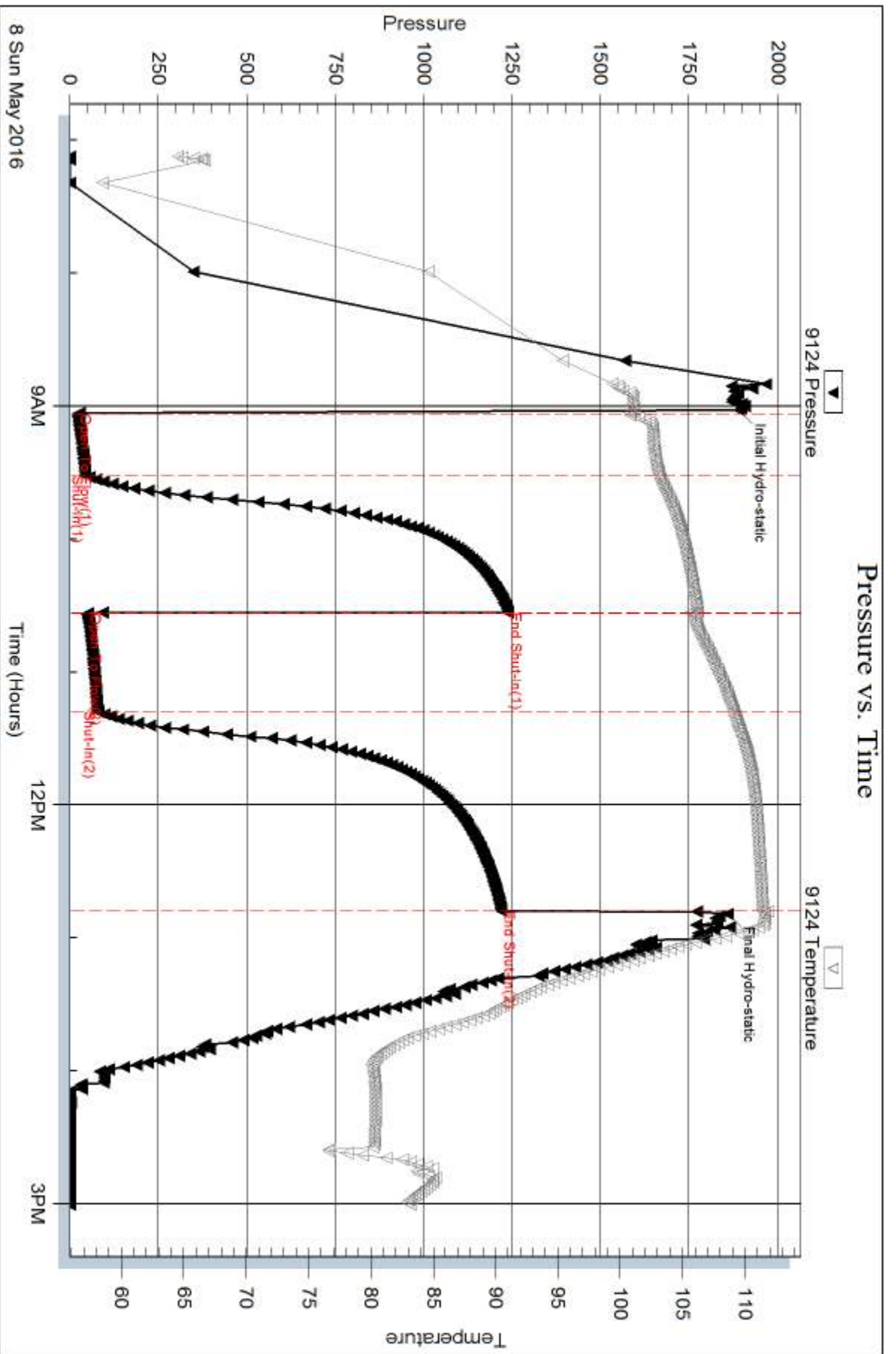
Length ft	Description	Volume bbl
32.00	OCMW 5%o 19%m 76%w	0.157
93.00	GMCO 30%g 33%m 37%o	0.457
10.00	OCM 18%o 82%m	0.049
0.00	505 ft.of GIP	0.000

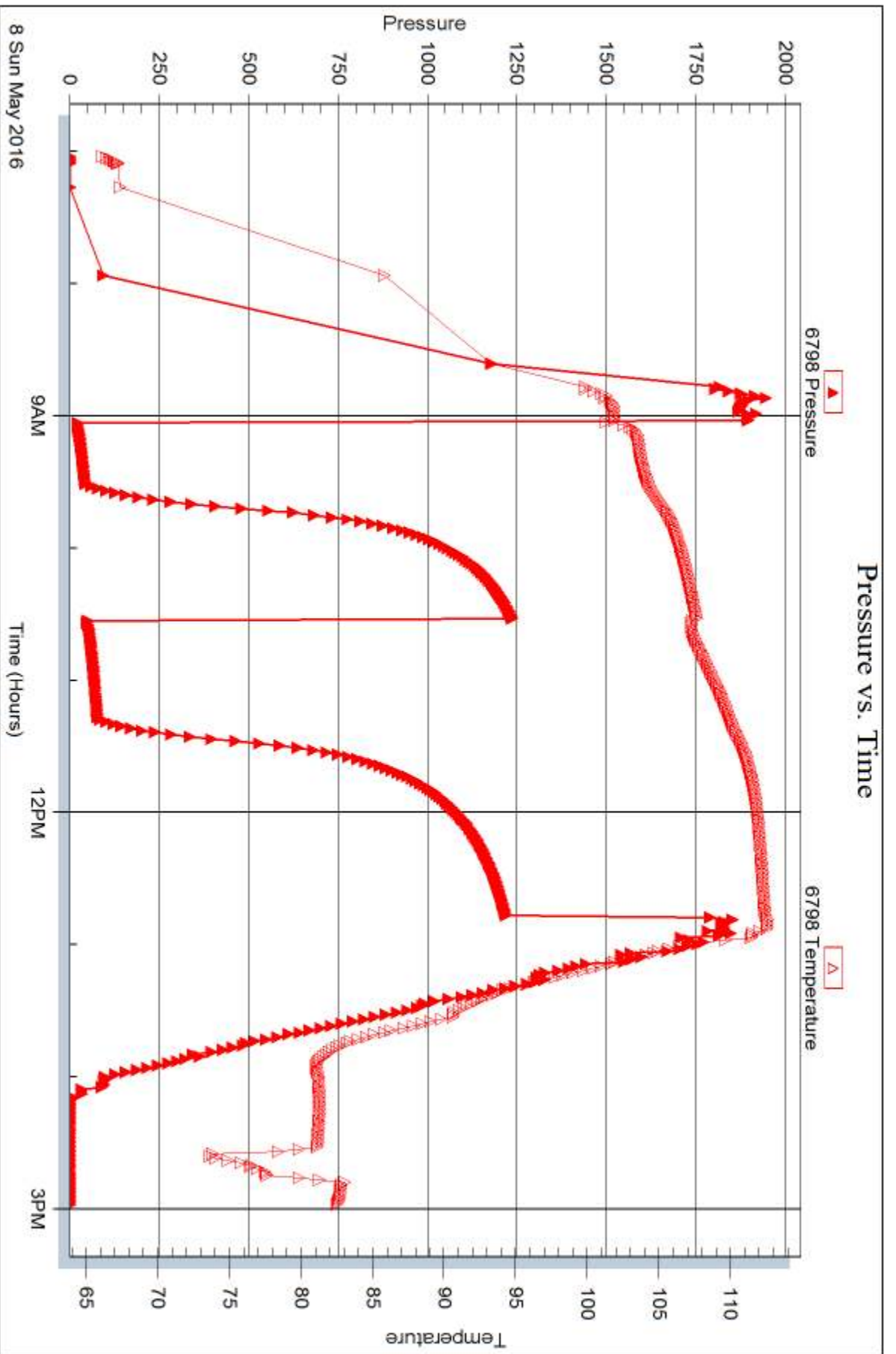
Total Length: 135.00 ft      Total Volume: 0.663 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: Rw .12ohms@65deg









## DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206

ATTN: Ken LeBlanc

### **Money Shot #1-21**

#### **21-27s-14w Pratt,KS**

Start Date: 2016.05.09 @ 04:51:54

End Date: 2016.05.09 @ 13:02:09

Job Ticket #: 57947                      DST #: 3

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

Printed: 2016.05.13 @ 08:41:23

CMX Inc. 21-27s-14w Pratt,KS Money Shot #1-21 DST # 3 LKC "H" 2016.05.09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc.  
1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**21-27s-14w Pratt,KS**

**Money Shot #1-21**

Job Ticket: 57947

**DST#: 3**

Test Start: 2016.05.09 @ 04:51:54

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:41:54

Time Test Ended: 13:02:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 80

**Interval: 4068.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Total Depth: 4090.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2004.00 ft (KB)

1991.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 9124 Outside**

Press@RunDepth: 83.91 psig @ 4069.00 ft (KB)

Start Date: 2016.05.09

End Date:

2016.05.09

Start Time: 04:51:59

End Time:

13:02:08

Capacity: 8000.00 psig

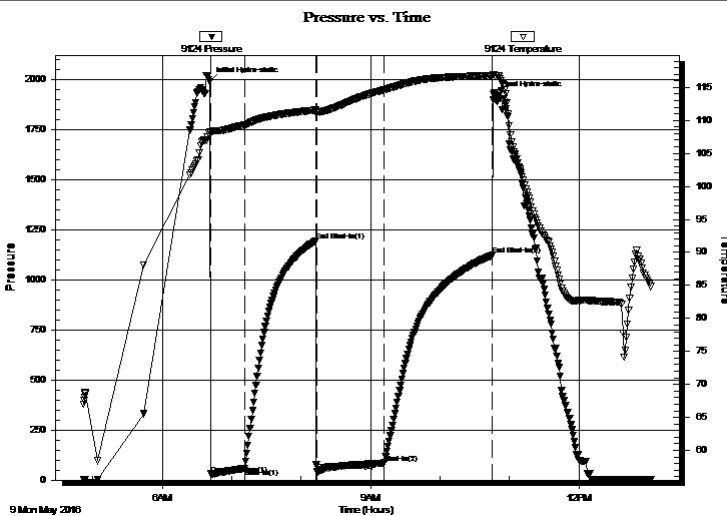
Last Calib.: 2016.05.09

Time On Btm: 2016.05.09 @ 06:40:39

Time Off Btm: 2016.05.09 @ 10:46:24

**TEST COMMENT:** IF:Strong blow . B.O.B. in 100 secs.  
IS:No blow .  
FF:Strong blow . B.O.B. in 6 secs.  
FS:Weak blow . 1/2 - 1".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.66	108.24	Initial Hydro-static
2	31.44	108.08	Open To Flow (1)
31	57.39	109.29	Shut-In(1)
92	1195.40	111.57	End Shut-In(1)
93	43.35	111.37	Open To Flow (2)
151	83.91	114.61	Shut-In(2)
245	1123.94	116.83	End Shut-In(2)
246	1924.18	116.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
61.00	GMCO 46%g 6%m 48%o	0.30
137.00	GMCO 28%g 36%m 36%o	0.81
2.00	Clean Oil	0.03
0.00	3280 ft.of GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc.

**21-27s-14w Pratt,KS**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57947

**DST#: 3**

Test Start: 2016.05.09 @ 04:51:54

## Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	83000.00 lb
			<u>Total Volume: 55.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	4068.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4046.00	
Shut In Tool	5.00			4051.00	
Hydraulic tool	5.00			4056.00	
Safety Joint	3.00			4059.00	
Packer	4.00			4063.00	23.00 Bottom Of Top Packer
Packer	5.00			4068.00	
Stubb	1.00			4069.00	
Recorder	0.00	9124	Outside	4069.00	
Recorder	0.00	6798	Inside	4069.00	
Perforations	16.00			4085.00	
Bullnose	5.00			4090.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc.

**21-27s-14w Pratt,KS**

1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57947

**DST#: 3**

Test Start: 2016.05.09 @ 04:51:54

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 9.18 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 5400.00 ppm  
Filter Cake: 0.20 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 5400 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GMCO 46%g 6%m 48%o	0.300
137.00	GMCO 28%g 36%m 36%o	0.810
2.00	Clean Oil	0.028
0.00	3280 ft.of GIP	0.000

Total Length: 200.00 ft      Total Volume: 1.138 bbl

Num Fluid Samples: 0

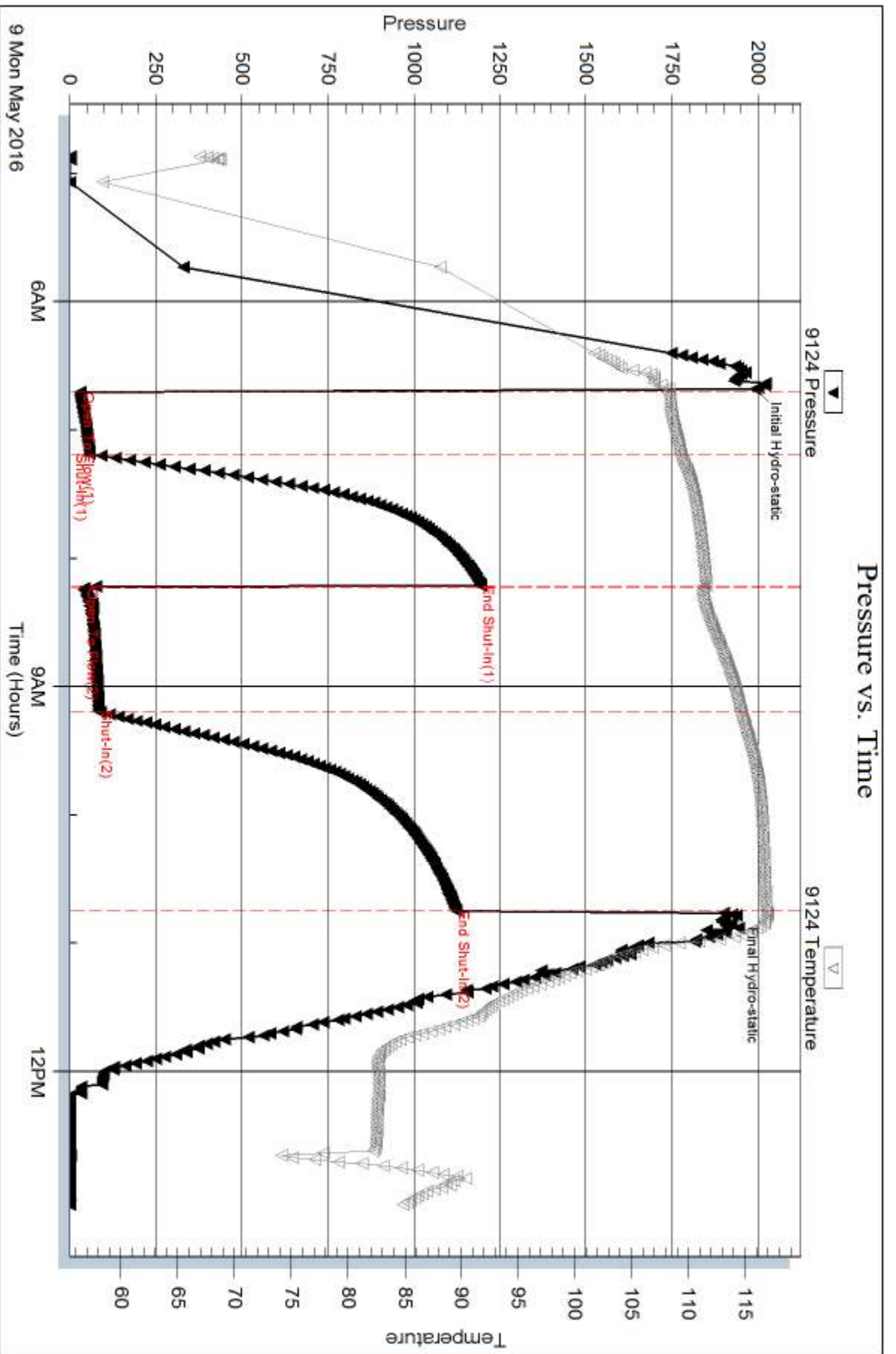
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



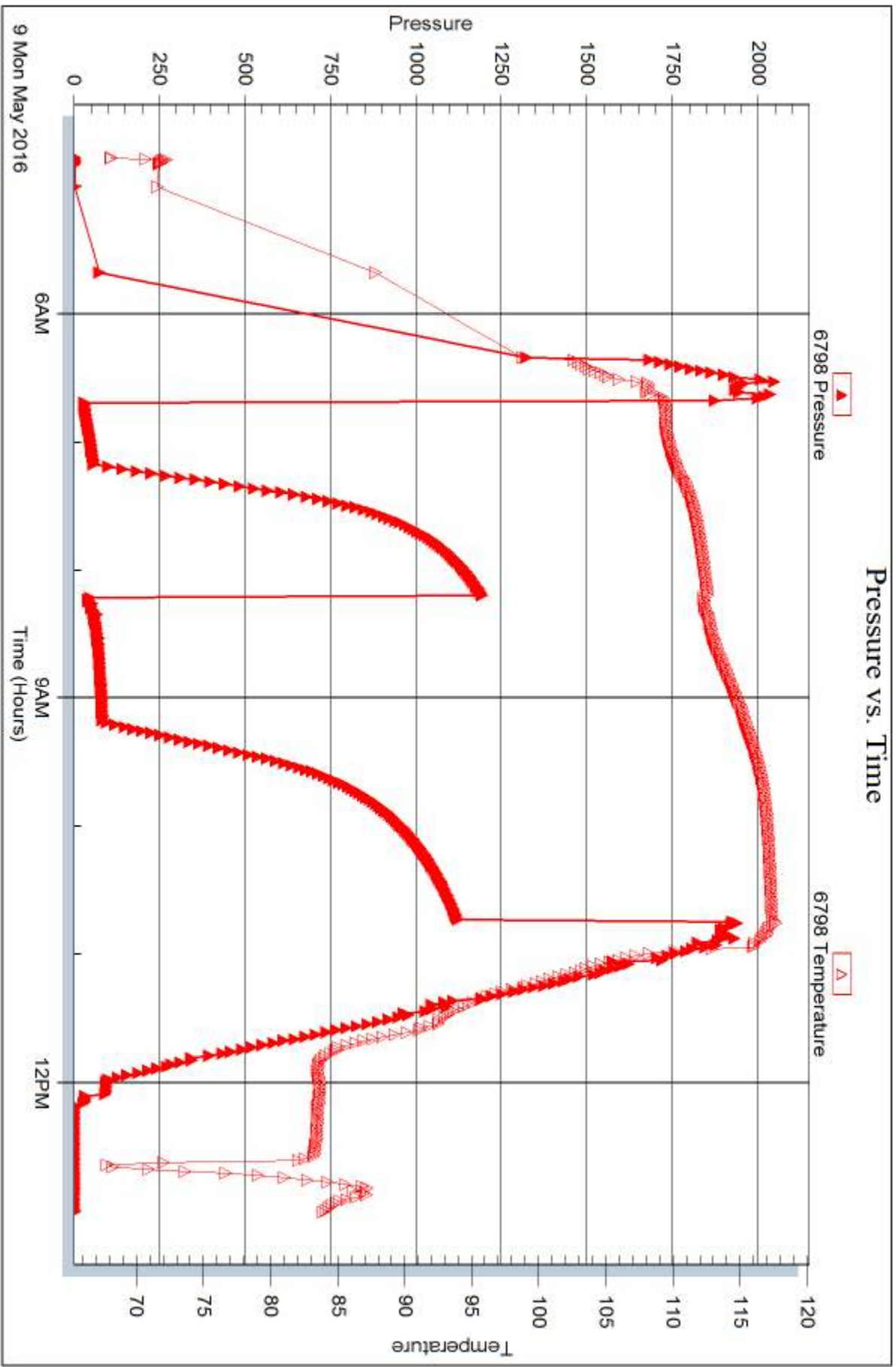
Serial #: 6798

Inside

CMX Inc.

Money Shot #1-21

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 57947

Printed: 2016.05.13 @ 08:41:25



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206

ATTN: Ken LeBlanc

### **Money Shot #1-21**

#### **21-27s-14w Pratt,KS**

Start Date: 2016.05.11 @ 07:59:24

End Date: 2016.05.11 @ 15:50:54

Job Ticket #: 57948                      DST #: 4

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

Printed: 2016.05.13 @ 08:38:58





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc.  
1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**21-27s-14w Pratt,KS**

**Money Shot #1-21**

Job Ticket: 57948

**DST#: 4**

Test Start: 2016.05.11 @ 07:59:24

## GENERAL INFORMATION:

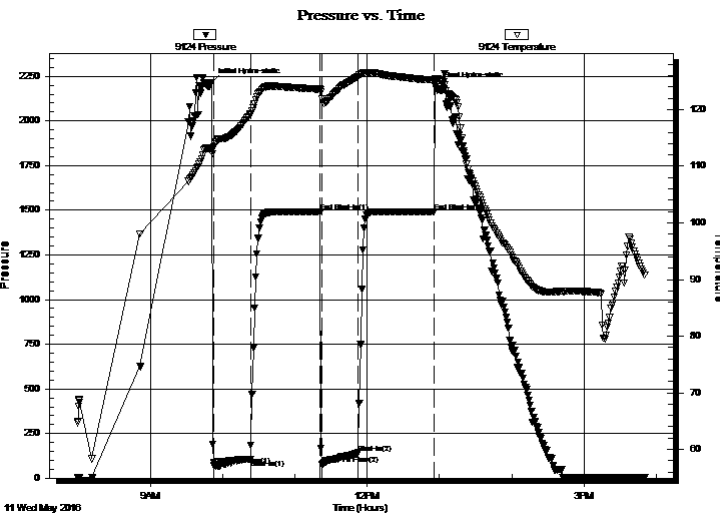
Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:52:39  
 Time Test Ended: 15:50:54  
 Interval: **4520.00 ft (KB) To 4548.00 ft (KB) (TVD)**  
 Total Depth: 4548.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Gary Pevoteaux  
 Unit No: 80  
 Reference Elevations: 2004.00 ft (KB)  
 1991.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 9124

**Outside**

Press@RunDepth: 141.38 psig @ 4521.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.05.11 End Date: 2016.05.11 Last Calib.: 2016.05.11  
 Start Time: 07:59:29 End Time: 15:50:53 Time On Btm: 2016.05.11 @ 09:50:54  
 Time Off Btm: 2016.05.11 @ 12:56:54

TEST COMMENT: IF:Stron blow . B.O.B. in 20 secs. GTS in 6 1/2 mins.(see gas flow report)  
 IS:Weak blow . 1/2 - 1".  
 FF:Strong blow . (see gas flow report)  
 FS:Weak blow . 1/2 - 1 1/2".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.30	113.01	Initial Hydro-static
2	70.12	113.48	Open To Flow (1)
32	106.35	119.17	Shut-In(1)
90	1491.89	123.58	End Shut-In(1)
92	78.91	121.89	Open To Flow (2)
122	141.38	125.87	Shut-In(2)
185	1491.59	125.21	End Shut-In(2)
186	2193.67	125.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	GCMW 4%g 4%m 92%w	0.61
125.00	GCMW /w trace of oil 6%g 22%m 72%w	1.22
105.00	GCWM 5%g 18%w 77%m	1.47

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	26.00	147.99
Last Gas Rate	0.38	2.00	60.08
Max. Gas Rate	0.38	30.00	162.65





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc.

**21-27s-14w Pratt,KS**

1700 N. Waterfront Parkway  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57948

**DST#: 4**

Test Start: 2016.05.11 @ 07:59:24

## Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 61.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4520.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			4498.00	
Shut In Tool	5.00			4503.00	
Hydraulic tool	5.00			4508.00	
Safety Joint	3.00			4511.00	
Packer	4.00			4515.00	23.00 Bottom Of Top Packer
Packer	5.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	9124	Outside	4521.00	
Recorder	0.00	6798	Inside	4521.00	
Perforations	22.00			4543.00	
Bullnose	5.00			4548.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc.

**21-27s-14w Pratt, KS**

1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57948

**DST#: 4**

Test Start: 2016.05.11 @ 07:59:24

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.18 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4300.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 57000 ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GCMW 4%g 4%m 92%w	0.610
125.00	GCMW /w trace of oil 6%g 22%m 72%w	1.216
105.00	GCWM 5%g 18%w 77%m	1.473

Total Length: 354.00 ft Total Volume: 3.299 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-4

Laboratory Name: Caraw ay

Laboratory Location: Liberal, KS

Recovery Comments: Rw .11 ohms@83 deg



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

CMX Inc.

**21-27s-14w Pratt, KS**

1700 N. Waterfront Parkw ay  
BLDG. 300B  
Wichita KS. 67206  
ATTN: Ken LeBlanc

**Money Shot #1-21**

Job Ticket: 57948

**DST#: 4**

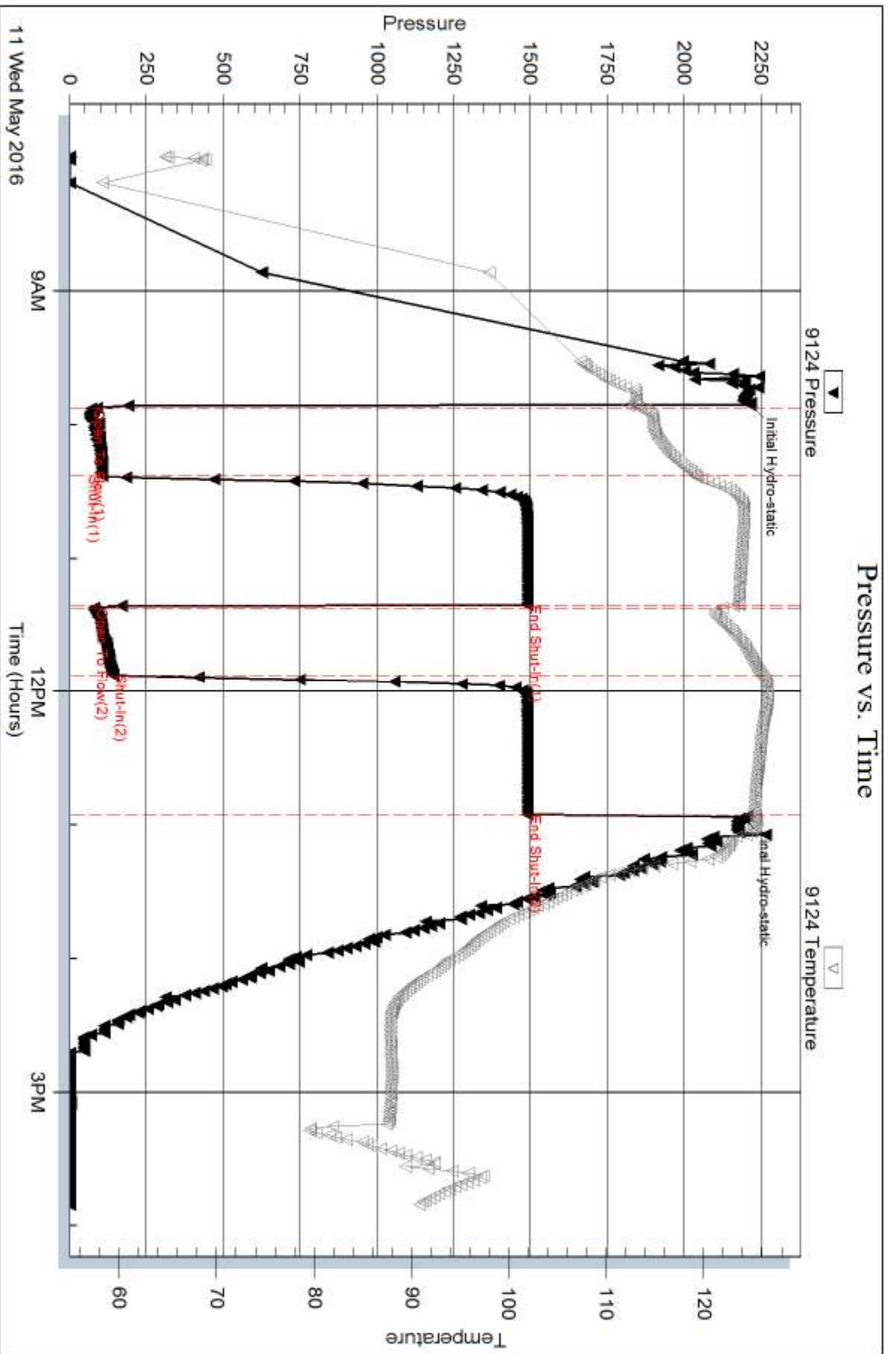
Test Start: 2016.05.11 @ 07:59:24

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	26.00	147.99
1	20	0.38	30.00	162.65
1	30	0.38	22.00	133.34
2	10	0.38	8.00	82.06
2	20	0.38	7.00	78.39
2	30	0.38	2.00	60.08



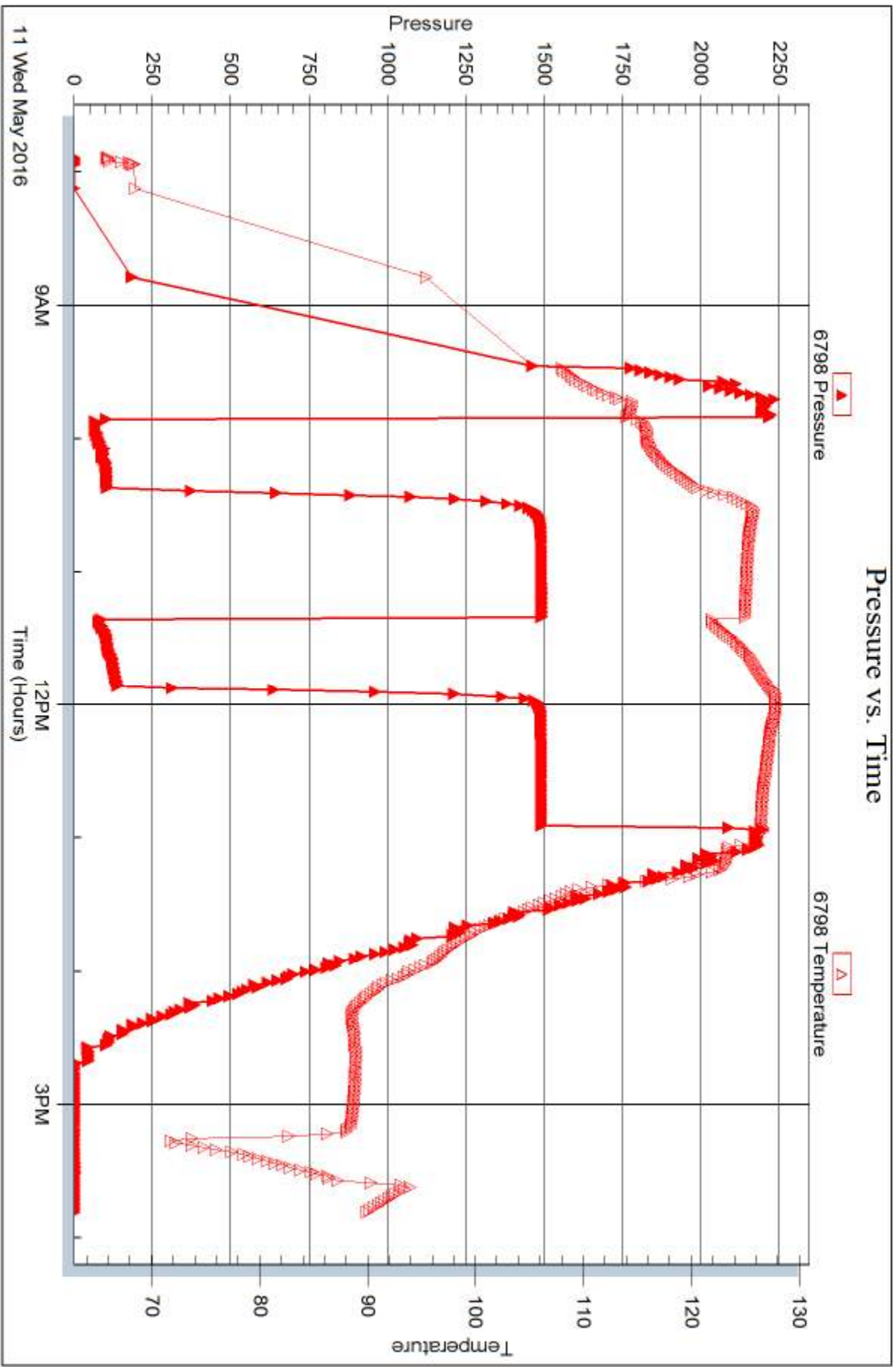
Serial #: 6798

Inside

CMX Inc.

Money Shot #1-21

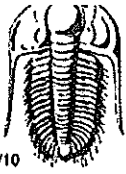
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57948

Printed: 2016.05.13 @ 08:39:00



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57945

4/10

Well Name & No. MONEY SHOT # 1-21 Test No. 1 Date 5-7-2016  
 Company CMX INC. Elevation 2004 KB 1991 GL  
 Address 1700 N. WATERFRONT PARKWAY, BLDG 300B, WICHITA KS. 67206  
 Co. Rep / Geo. KEN L BLANC Rig DUKE DRUG. # 7  
 Location: Sec. 21 Twp. 27 S Rge. 14 W Co. PRATT State KS.

Interval Tested 3947 - 3962' Zone Tested LANS. B.  
 Anchor Length 15' Drill Pipe Run 3745' Mud Wt. 9.3  
 Top Packer Depth 3942' Drill Collars Run 183' Vis 48  
 Bottom Packer Depth 3947' Wt. Pipe Run 0 WL 9.16 cc  
 Total Depth 3962' Chlorides 4800 ppm System LCM 2#  
 Blow Description Weak blow. 2" decreasing. ISI: No blow.

FF: Very weak blow (surface) Dead in 6 mins.  
 COMMENT: 10-12 ft. of hard fill on bitum. Did tool 4-5 ft.

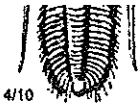
Rec	Feet of	%gas	%oil	%water	%mud
15	Heavy gritty Mud.				

Rec Total 15 BHT \_\_\_\_\_ Gravity N/A API RW NC @ \_\_\_\_\_ °F Chlorides 4800 ppm  
 (A) Initial Hydrostatic 1983  Test Messum. 850 T-On Location 1910  
 (B) First Initial Flow 346  Jars \_\_\_\_\_ T-Started 20 23  
 (C) First Final Flow \_\_\_\_\_  Safety Joint 75 T-Open 22 46  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 23 54  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 01 44  
 (F) Second Final Flow \_\_\_\_\_  Mileage 20 18 Comments Charts show  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ tool plugged.  
 (H) Final Hydrostatic 1871  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 15  Shale Packer \_\_\_\_\_  
 Initial Shut-In 13  Extra Packer \_\_\_\_\_  
 Final Flow 6  Extra Recorder \_\_\_\_\_  
 Final Shut-In NONE  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 943 Sub Total \_\_\_\_\_  
 Total 943 Total \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Gay Rotary

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.





**TRITOBITE TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

NO. 57946

Well Name & No. MONEY SHOT # 1-21 Test No. 2 Date 5-8-2016  
 Company CMX Inc. Elevation 2004 KB 1991 GL  
 Address 1700 N. WATERFRONT PARKWAY, BLDG 300 B, WICHITA KS. 67206  
 Co. Rep / Geo. KEW LEBLANC Rig DUKE DRUG. #7  
 Location: Sec. 21 Twp. 27S Rge. 14W Co. PRATT State Ks.

Interval Tested 3947-3962' Zone Tested LANS. B  
 Anchor Length 15' Drill Pipe Run 3745' Mud Wt. 9.2  
 Top Packer Depth 3942' Drill Collars Run 183' Vls 60  
 Bottom Packer Depth 3947' Wt. Pipe Run 0 WL 8.0cc  
 Total Depth 3962' Chlorides 4500 ppm System LCM 2#

Blow Description IF: Strong blow. B.O.B. in 8 1/2 mins.  
IST: Weak blow. 1/2 - 3/4"  
FF: Fair to strong blow. B.O.B. in 13 mins. FSI: Weak blow. 1/2 - 3/4"

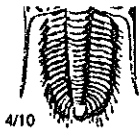
Rec	Feet of	%gas	%oil	%water	%mud
<u>505</u>	<u>Gas in pipe</u>				
<u>10</u>	<u>OCM</u>	<u>18</u>		<u>82</u>	
<u>93</u>	<u>GMCO</u>	<u>30</u>	<u>37</u>	<u>33</u>	
<u>32</u>	<u>OCMW</u>	<u>5</u>	<u>76</u>	<u>19</u>	

Rec Total 135' Fluid BHT 111° Gravity N/A API RW 12 @ 65 °F Chlorides 70,000 ppm  
 Test 1050 T-On Location 0640  
 Jars \_\_\_\_\_ T-Started 0707  
 Safety Joint 75 T-Open 0903  
 Circ Sub \_\_\_\_\_ T-Pulled 1251  
 Hourly Standby \_\_\_\_\_ T-Out 1500  
 Mileage (24) 18 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1143 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 90

Approved By Kew LeBlanc Our Representative Gary Pivota

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# TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 57947

Well Name & No. MONEY SHOT # 1-21 Test No. 3 Date 5-9-2016  
 Company ~~WICHITA KANSAS~~ CMX INC. Elevation 2004 KB 1991 GL  
 Address WICHITA KS. 67206  
 Co. Rep / Geo. Ken LeBlanc Rig Duke Driller #7  
 Location: Sec. 21 Twp. 27S Rge. 14W Co. PRATT State KS.

Interval Tested 4068 - 4090' Zone Tested LAWS. "H"  
 Anchor Length 22' Drill Pipe Run 3870' Mud Wt. 9.3  
 Top Packer Depth 4063' Drill Collars Run 183' Vis 50  
 Bottom Packer Depth 4068' Wt. Pipe Run 0 WL 9.2 cc  
 Total Depth 4090' Chlorides 5,400 ppm System LCM 3#

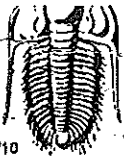
Blow Description IF: Strong blow. B.O.B. in 100 sec. IST: No blow.

FF: Strong blow. B.O.B. in 6 sec. FST: Weak blow. 1/2 - 1".

Rec	Feet of	%gas	%oil	%water	%mud
<u>3280</u>	<del>Gas</del> <u>Gas in pipe</u>				
<u>2</u>	<u>clean oil</u>				
<u>137</u>	<u>GMCO</u>	<u>28</u>	<u>36</u>	<u>36</u>	
<u>61</u>	<u>GMCO</u>	<u>46</u>	<u>48</u>	<u>6</u>	

Rec Total 200 Fluid BHT 117° Gravity N.C. API RW N.C. @ 7 °F Chlorides 5400 ppm  
 (A) Initial Hydrostatic 1992  Test 1150 T-On Location 0430  
 (B) First Initial Flow 31  Jars \_\_\_\_\_ T-Started 0451  
 (C) First Final Flow 57  Safety Joint 75 T-Open 0641  
 (D) Initial Shut-In 1193  Circ Sub \_\_\_\_\_ T-Pulled 1046  
 (E) Second Initial Flow 43  Hourly Standby \_\_\_\_\_ T-Out 1302  
 (F) Second Final Flow 84  Mileage (24) 18 Comments \_\_\_\_\_  
 (G) Final Shut-In 1124  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1924  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1243  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90  Sub Total 1243

Approved By Ken LeBlanc Our Representative Cary P. ...  
 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57948

Well Name & No. MONEY SHOT # 1-21 Test No. 4 Date 5-11-2016  
 Company CMX INC. Elevation 2004 KB 1991 GL  
 Address 1700N. WATERFRONT PARKWAY, BLDG. 300B, WICHITA KS. 67206  
 Co. Rep / Geo. KEN LEOLANG Rig DUKE DRUG #7  
 Location: Sec. 21 Twp. 27<sup>S</sup> Rge. 14<sup>W</sup> Co. PRATT State KS.

Interval Tested 4520 - 4548' Zone Tested SIMPSON SD.  
 Anchor Length 28' Drill Pipe Run 4348' Mud Wt. 9.3  
 Top Packer Depth 4515' Drill Collars Run 183' Vis 52  
 Bottom Packer Depth 4520' Wt. Pipe Run 6 WL 10.2 cc  
 Total Depth 4548' Chlorides 4300 ppm System LCM 3#

Blow Description IF: Strong blow. 13.0.3. in 20 sec. GTS in 6 1/2 mins. (see gas flow report) ISI: Weak blow 1/2 - 1".  
FF: Strong blow. (see gas flow report) FSI: Weak blow 1/2 - 1 1/2".

Rec	Feet of	%gas	%oil	%water	%mud
105	<del>GCMW</del>	5	18	77	
125	GCMW w/ trace of oil	6	72	22	
124	GCMW	4	92	4	

Rec Total 354 Fluid BHT 125° Gravity N/A API RW 11 @ 83 °F Chlorides 57,000 ppm  
 (A) Initial Hydrostatic 2215  Test 1150 T-On Location 0747  
 (B) First Initial Flow 70  Jars \_\_\_\_\_ T-Started 0759  
 (C) First Final Flow 106  Safety Joint .75 T-Open 0952  
 (D) Initial Shut-In 1492  Circ Sub \_\_\_\_\_ T-Pulled 1257  
 (E) Second Initial Flow 79  Hourly Standby \_\_\_\_\_ T-Out 1550  
 (F) Second Final Flow 141  Mileage (24) 18 Comments \_\_\_\_\_  
 (G) Final Shut-In 1492  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2194  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies 225  
 Initial Open 30  Extra Recorder \_\_\_\_\_  
 Initial Shut-In 60  Day Standby 1.5d 6.75h  
 Final Flow 30  Accessibility \_\_\_\_\_  
 Final Shut-In 60  Sub Total 1243  
 Sub Total 1243 Total 1243 + 225  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative Craig Perotimus

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.





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	06/30/2016
<b>INVOICE NUMBER</b>			
<b>92162879</b>			

Pratt (620) 672-1201  
 B CMX INC  
 I 1700 N WATERFRONT PKWY BLDG 300 STE B  
 L WICHITA  
 L KS US 67206  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Money Shot 1-21  
 O LOCATION  
 B COUNTY Pratt  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40946372	20920		Net - 30 days	07/30/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/16/2016 to 06/16/2016</b>				
0040946372				
171813776A Cement-New Well Casing/Pi 06/16/2016 Cement Squeeze				
Fine-Pore Space Cement	25.00	EA	100.00	2,500.00 T
C-41P	4.00	EA	2.00	8.00 T
Cement Friction Reducer	7.00	EA	3.00	21.00 T
"Unit Mileage Chg (PU, cars one way)"	10.00	MI	2.25	22.50
Heavy Equipment Mileage	20.00	MI	3.75	75.00
7- "Propp & Bulk Del. Chrg. per ton mil	1.00	EA	8.13	8.13
Blending & Mixing Service Charge	25.00	BAG	0.70	17.50
Depth Charge; 4001'-5000'	1.00	EA	1,260.00	1,260.00
Cement Squeeze Manifold	1.00	EA	250.00	250.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	87.50	87.50

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>4,249.63</b>
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	<b>TAX</b>	<b>208.64</b>
PO BOX 841903	801 CHERRY ST, STE 2100	<b>INVOICE TOTAL</b>	<b>4,458.27</b>
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



Customer <i>Cmy, Inc.</i>	Lease No.	Date <i>6/16/2016</i>	
Lease <i>Money Show</i>	Well # <i>1-21</i>		
Field Order # <i>13776</i>	Station <i>Pr9+, ks</i>	Casing	Depth
Type Job <i>CNW/Squeeze</i>	Formation	County <i>Pr9+</i>	State <i>KS</i>
		Legal Description <i>21-27-14</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
	<i>2 7/8</i>							
Depth	Depth <i>3571</i>	From	To	Pre Pad	Max		5 Min.	
Volume	Volume <i>23</i>	From	To	Pad	Min		10 Min.	
Max Press	Max Press <i>2500</i>	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol. <i>62 3/4</i>	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth <i>3571</i>	From	To	Flush <i>Freshwater</i>	Gas Volume		Total Load	

Customer Representative <i>Ke. + n</i>	Station Manager <i>Kevin Golden</i>	Treater <i>Darin Franklin</i>
---	--	----------------------------------

Service Units	<i>92911</i>	<i>33708</i>	<i>20920</i>	<i>19959</i>	<i>21010</i>				
Driver Names	<i>Darin</i>	<i>Byron</i>	<i>Byron</i>	<i>Huck</i>	<i>Huck</i>				

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>8:00 AM</i>					<i>ON LOCATION / Safety Meeting</i>
					<i>25 SK Fine - Pure SPSIC Cement</i>
<i>8:30 AM</i>	<i>500</i>		<i>21</i>	<i>3</i>	<i>LOSS CSINS</i>
		<i>1700</i>	<i>3</i>	<i>1/2</i>	<i>Injection Rate under packer</i>
		<i>1700</i>	<i>5</i>	<i>1/2</i>	<i>mix 25SK cement</i>
					<i>Shut down</i>
					<i>Wash pump &amp; lines</i>
		<i>300</i>	<i>16</i>	<i>3</i>	<i>DISPLACE</i>
					<i>Shut down</i>
					<i>Set packer</i>
	<i>500</i>		<i>1/4</i>	<i>1/4</i>	<i>Pressure CSINS</i>
		<i>2,500</i>	<i>2</i>	<i>1/4</i>	<i>TUBING - SQUEEZE</i>
					<i>Bleed Packer</i>
	<i>300</i>		<i>24</i>	<i>2</i>	<i>Reverse out</i>
					<i>Pull 2 Joints</i>
	<i>500</i>		<i>1/4</i>	<i>1/4</i>	<i>LOSS CSINS</i>
		<i>2,500</i>	<i>1/2</i>	<i>1/4</i>	<i>SQUEEZE</i>
					<i>Shut in</i>
					<i>Job complete / Darin &amp; crew</i>
					<i>Thank you!!</i>





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	06/29/2016
<b>INVOICE NUMBER</b>			
<b>92161234</b>			

Pratt (620) 672-1201  
 B CMX INC  
 I 1700 N WATERFRONT PKWY BLDG 300 STE B  
 L WICHITA  
 L KS US 67206  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Money Shot 1-21  
 O LOCATION  
 B COUNTY Pratt  
 S STATE KS  
 I JOB DESCRIPTION Acid Clean Tub / Casing-N  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40945676	27463		Net - 30 days	07/29/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/13/2016 to 06/13/2016</b>				
0040945676				
171813650A Acid Clean Tub / Casing-N 06/13/2016 Cement Squeeze				
Common Cement	100.00	EA	8.80	880.00
C-41P	6.00	EA	2.20	13.20
FLA-322	12.00	EA	4.13	49.50
"Unit Mileage Chg (PU, cars one way)"	10.00	MI	2.48	24.75
Heavy Equipment Mileage	20.00	MI	4.13	82.50
"Proppant & Bulk Del. Chgs., per ton mil	48.00	EA	1.38	66.00
Blending & Mixing Service Charge	100.00	BAG	0.77	77.00
Cement Squeeze Manifold	1.00	EA	275.00	275.00
Depth Charge; 4001'-5000'	1.00	EA	1,386.00	1,386.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	95.56	95.56

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	2,949.51
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	2,949.51
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		





Customer <b>CMX, Inc</b>	Lease No.	Date <b>6/13/2016</b>
Lease <b>money shoot</b>	Well # <b>1-21</b>	
Field Order # <b>13</b>	Station	Casing <b>2 7/8</b> Depth <b>3970</b> County <b>Pratt</b> State <b>KS</b>
Type Job <b>LNW / Squeeze</b>	Formation	Legal Description <b>21-27-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>3 1/2</b>	Tubing Size <b>2 7/8</b>	Shots/Ft <b>2</b>		Acid		RATE	PRESS	ISIP
Depth <b>3970</b>	Depth <b>3970</b>	From	To	Pre Pad	Max			5 Min.
Volume	Volume <b>23</b>	From	To	Pad	Min			10 Min.
Max Press	Max Press <b>4,000</b>	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol. <b>63</b>	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth <b>3570</b>	From	To	Flush <b>Freshwater</b>	Gas Volume			Total Load

Customer Representative	Station Manager	Treater
Service Units <b>92911 27463 77686 19918</b>		
Driver Names <b>Dgrin m. mcgr Dgrin Dgrin</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00pm					On location / safety meeting
					255k common + 5% FPA-323 .25% C-41P
					755k common, COMPAA 323 .1% C-41P
5:30pm	500		38	3	Load ccsins to 500ps.
		300	5	5	Injection rate
		300	10	5	mix cement
		1,000	21	1	
		1,000	3	1	Flush
					Pull 30 joints
	500		57	2	Reverse over
					Pack off hose
	500		2	1/4	Squeeze down ccsins
					Block back - Hold
	200		10	3	Pull packer out of hole
	200		10	3	Pressure ccsins to 200ps.
8:30pm					Shut in
					Job complete / Dgrin & crew
					Thank you!!