



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1213581  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1213581

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. 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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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PAGE 1 of 1	CUST NO 1000793	INVOICE DATE 06/23/2014
INVOICE NUMBER 1717 - 91522445		

**Liberal** (620) 624-2277  
 B CMX INC  
 I 1700 N WATERFRONT PKWY BLDG 300 STE B  
 L WICHITA  
 T KS US 67206  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Woods Trust #2  
 O LOCATION  
 B COUNTY Pawnee  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40735475	38117			Net - 30 days	07/23/2014
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/20/2014 to 06/20/2014</b>					
0040735475					
171705904A Cement-New Well Casing/Pi 06/20/2014 8 5/8 Surface					
A-Con' Blend		200.00	EA	13.95	2,790.00 T
Premium Plus Cement		200.00	EA	12.23	2,445.00 T
Celloflake		100.00	EA	2.78	277.50 T
Calcium Chloride		940.00	EA	0.79	740.25 T
"Top Rubber Cmt Plug, 8 5/8""		1.00	EA	168.75	168.75
"8 5/8"" Guide Shoe (Red)"		1.00	EA	412.50	412.50
"Flapper Ins. Fit. Vlv., 8 5/8"" (Blue)		1.00	EA	210.00	210.00
Antelope Strd Bow Cent. 8 5/8 X 12 1/4		3.00	EA	108.75	326.25
"Cement Basket, 8 5/8"		1.00	EA	236.25	236.25
"Unit Mileage Chg (PU, cars one way)"		150.00	MI	5.25	787.50
Blending & Mixing Service Charge		400.00	BAG	1.05	420.00
"Proppant & Bulk Del. Chgs., per ton mil		1,410.00	EA	1.65	2,326.50
Depth Charge; 501'-1000'		1.00	EA	1,125.00	1,125.00
Plug Container Util. Chg.		1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.		1.00	EA	131.25	131.25
"Unit Mileage Chg (PU, cars one way)"		75.00	MI	3.19	239.06

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,823.31
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	509.60
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	13,332.91
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 05904 A

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

DATE OF JOB <b>6/20/14</b>	DISTRICT	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 <b>CMX Inc</b>		LEASE <b>Woods Trust</b>	WELL NO. <b>2</b>				
ADDRESS		COUNTY <b>Pawnee</b>	STATE <b>KS</b>				
CITY	STATE	SERVICE CREW <b>Chad/Tommy/Santiago</b>					
AUTHORIZED BY <b>Tyce Davis</b>		JOB TYPE: <b>742 Surface</b>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE/TIME
<b>78939</b>	<b>6</b>						<b>6/20/14 PM 5:30</b>
<b>38117/19919-</b>	<b>6-</b>					ARRIVED AT JOB	<b>PM 9:00</b>
<b>19824/19883</b>	<b>6</b>					START OPERATION	<b>AM 1:00</b>
						FINISH OPERATION	<b>PM 2:10</b>
						RELEASED	<b>AM 3:00</b>
						MILES FROM STATION TO WELL	<b>75</b>

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: X *Chad D. Rouse*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL 101	✓ Accon Blend	SK	200		3720 00
CL 110	✓ Premium Plus Cement	SK	200		3260 00
CC 102	✓ Cellotape	lb	100		370 00
CC 109	✓ Calcium Chloride	lb	940		987 00
CF 105	✓ Top Rubber Cement Plug 8 5/8	ea	1		225 00
CF 203	✓ 8 5/8 Guide Shoe	ea	1		550 00
CF 1453	✓ Flapper Type Inseal Float Valve 8 3/8	ea	1		280 00
CF 1773	✓ Centralizers 8 3/8 x 12'4 (1459)	ea	3		435 00
CF 1903	✓ 8 3/8 Basket	ea	1		315 00
E101	Heavy Equipment Mileage	mi	150		1050 00
CE240	Mixing & Blending Service Charge	SK	400		560 00
E113	Proppant and Bulk Delivery Charges	tm	140		3102 00
CE201	Depth Charge 1001-2000	4hrs	1		1500 00
CE504	Plug Container - Utilization Charge	Job	1		250 00
5003	Service Supervisor first 8 hrs on loc	ea	1		175 00
E106	Unit Mileage Charge (Pickup)	mi	75		318 75
SUB TOTAL					12,825 75

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *Tommy Morcellus* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Chad D. Rouse*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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



**BASIC™**  
ENERGY SERVICES  
Liberal, Kansas

**Cement Report**

Customer	<i>CMX Inc</i>	Lease No.		Date	<i>6/20/14</i>
Lease	<i>Wood Trust</i>	Well #	<i>2</i>	Service Receipt	<i>1717 05904</i>
Casing	<i>8 5/8</i>	Depth	<i>1028.83</i>	County	<i>Pawnee</i>
Job Type	<i>Surface</i>	Formation		State	<i>KS</i>
				Legal Description	<i>Sec/24 - Twp/21S - Range 19W</i>

Pipe Data		Perforating Data		Cement Data
Casing size	<i>8 5/8</i>	Tubing Size		Lead <i>200SK Acon @ 12#</i>
Depth	<i>1028.83</i>	Depth		
Volume	<i>65.43 BBL</i>	Volume		<i>2.47 1/3 SK 14.49 gal/SK</i>
Max Press	<i>2000 psi</i>	Max Press		Tail in <i>200 SK From Plus Cement @ 14.8</i>
Well Connection	<i>PC</i>	Annulus Vol.		
Plug Depth	<i>986.67 ft</i>	Packer Depth		<i>1.34 ft 3/8 SK 6.33 gal/SK</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:00</i>					<i>On location Coming out of hole</i>
<i>10:00</i>					<i>Wiper - trip</i>
<i>11:25</i>					<i>Welder Arrived</i>
<i>11:30</i>					<i>Safety mtg w/bes Emp to Rig up</i>
<i>13:00</i>					<i>Safety mtg w/Rig crew</i>
<i>13:10</i>					<i>Pressure test 1500 psi</i>
<i>13:13</i>	<i>200</i>			<i>5BPM</i>	<i>Start Cement</i>
	<i>200</i>		<i>47</i>	<i>5BPM</i>	
<i>13:34</i>	<i>210</i>		<i>87</i>	<i>5BPM</i>	<i>Switch to tail</i>
<i>13:40</i>	<i>200</i>			<i>4BPM</i>	<i>Slowed &amp; late (outcoming tub)</i>
<i>13:45</i>					<i>Finish Cement, Drop Plug, Wash on Plug</i>
<i>13:49</i>			<i>10</i>		
			<i>20</i>		
			<i>30</i>		
			<i>40</i>		
			<i>50</i>		
			<i>57</i>	<i>2BPM</i>	
			<i>60</i>	<i>2BPM</i>	
<i>14:08</i>	<i>360</i>		<i>63</i>		<i>Landed Plug</i>
<i>14:08</i>	<i>1000</i>				<i>Pressured up to 1000</i>
<i>14:10</i>					<i>Released back</i>
<i>14:10</i>					<i>Plug held</i>
<i>14:10</i>					<i>Job Complete</i>

Service Units	<i>48939</i>	<i>38117/1919</i>	<i>1827/19883</i>		
Driver Names	<i>Chad Hinz</i>	<i>Tommy Marcellus</i>	<i>Santiago Chavez</i>		

*Calvin Roach*  
Customer Representative

*Jerry Bennett*  
Station Manager

*Tommy Marcellus*  
Cementer

Taylor Printing, Inc.



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1717	06/30/2014
INVOICE NUMBER			
91529280			

**Liberal** (620) 624-2277  
 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** Woods Trust #2  
**O LOCATION**  
**B COUNTY** Pawnee  
**S STATE** KS  
**I JOB DESCRIPTION** Cement-New Well Casing/Pi  
**T JOB CONTACT**  
**E**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40738548	27462	AFE# 15-145-21770-00	Net - 30 days	07/30/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/27/2014 to 06/27/2014</b>				
0040738548				
171705650A Cement-New Well Casing/Pi 06/27/2014 PTA				
60/40 POZ	160.00	EA	9.00	1,440.00 T
Cement Gel	276.00	EA	0.19	51.75 T
Heavy Equipment Mileage	150.00	MI	5.25	787.50
Blending & Mixing Service Charge	160.00	BAG	1.05	168.00
"Proppant & Bulk Del. Chgs., per ton mil	517.50	EA	1.65	853.88
Depth Charge; 1001'-2000'	1.00	EA	1,125.00	1,125.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25
"Unit Mileage Chg (PU, cars one way)"	75.00	MI	3.19	239.06

<b>PLEASE REMIT TO:</b> BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	<b>SEND OTHER CORRESPONDENCE TO:</b> BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	<b>SUB TOTAL</b> 4,796.44 <b>TAX</b> 121.58 <b>INVOICE TOTAL</b> 4,918.02
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**BASIC**  
ENERGY SERVICES  
Liberal, Kansas

**Cement Report**

Customer <i>CMX, Inc.</i>		Lease No. <i>Woods Trust</i>		Date <i>06-27-14</i>	
Lease <i>Woods Trust</i>		Well # <i>2</i>		Service Receipt <i>1717-05650</i>	
Casing <i>8 5/8"</i>	Depth <i>300'</i>	County <i>Pawnee</i>		State <i>KS</i>	
Job Type <i>PTA</i>		Formation <i>Mississippian</i>		Legal Description <i>27-219-14W</i>	
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>
Casing size	Tubing Size		Shots/Ft		Lead <i>110 S/C 60/40/20 4" gel</i>
Depth	Depth	From	To		
Volume	Volume	From	To		Tail in
Max Press	Max Press	From	To		
Well Connection	Annulus Vol.	From	To		
Plug Depth <i>1060'-330'-60'</i>	Packer Depth		From	To	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0800</i>					<i>Called out</i>
<i>1200</i>					<i>ON LOCATION</i>
					<i>Safety Meeting</i>
					<i>Big Up</i>
<i>1305</i>			<i>12.7 BBLs</i>	<i>4</i>	<i>1st Plug 1060'-818' 13.8 gpg</i>
			<i>3 BBLs</i>	<i>3</i>	<i>Disp 3 BBLs water</i>
			<i>7</i>	<i>3</i>	<i>Disp 7 BBLs mud</i>
					<i>2nd Plug 330'-190'</i>
<i>1345</i>			<i>10</i>	<i>2</i>	<i>10 BBLs</i>
<i>1349</i>			<i>2.7</i>	<i>2</i>	<i>2.7 BBLs 16" C</i>
<i>1420</i>			<i>5</i>	<i>2</i>	<i>Surface plug</i>
<i>1430</i>			<i>7</i>	<i>2</i>	<i>Ret Hole Plug</i>
<i>1440</i>			<i>5</i>	<i>2</i>	<i>Mouse Hole Plug</i>
					<i>Wash up</i>
					<i>Job Completed</i>
					<i>Thanks</i>
Service Units	<i>21755</i>	<i>27462</i>	<i>19827-19883</i>		
Driver Names	<i>Boyer</i>	<i>Eddie</i>	<i>Santigo</i>		

*Alan Roach*  
Customer Representative

*Jeremy Bennett*  
Station Manager

*Roger Brown*  
Cementer



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

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

ATTN: Leah Kasten

### **Wood Trust #2**

#### **27-21s-19w Pawnee,KS**

Start Date: 2014.06.24 @ 14:06:00

End Date: 2014.06.24 @ 21:54:30

Job Ticket #: 54060                      DST #: 1

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

Printed: 2014.06.27 @ 11:06:09

CMX Inc  
27-21s-19w Pawnee,KS  
Wood Trust #2  
DST # 1  
KC Drum  
2014.06.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita KS, 67206  
ATTN: Leah Kasten

**27-21s-19w Pawnee, KS**

**Wood Trust #2**

Job Ticket: 54060 **DST#: 1**

Test Start: 2014.06.24 @ 14:06:00

## GENERAL INFORMATION:

Formation: **KC Drum**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:55:00  
 Time Test Ended: 21:54:30  
 Interval: **3804.00 ft (KB) To 3832.00 ft (KB) (TVD)**  
 Total Depth: 3832.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2076.00 ft (KB)  
 2066.00 ft (CF)  
 KB to GR/CF: 10.00 ft

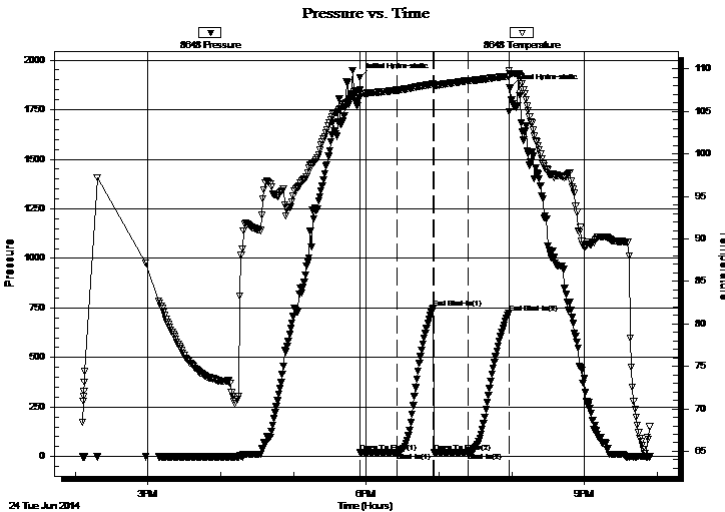
## Serial #: 8648

Inside

Press@RunDepth: 21.74 psig @ 3808.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.24 End Date: 2014.06.24 Last Calib.: 2014.06.24  
 Start Time: 14:06:05 End Time: 21:54:29 Time On Btm: 2014.06.24 @ 17:54:45  
 Time Off Btm: 2014.06.24 @ 19:58:30

TEST COMMENT: 30 - IF- 1/4" in 7 minutes, died  
 30 - IS- No return  
 30 - FF- No blow  
 30 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.30	107.50	Initial Hydro-static
1	20.49	106.62	Open To Flow (1)
31	21.57	107.49	Shut-In(1)
61	749.97	108.20	End Shut-In(1)
61	20.98	107.91	Open To Flow (2)
90	21.74	108.61	Shut-In(2)
123	723.17	109.14	End Shut-In(2)
124	1858.50	109.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, 100%M	0.07

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita KS, 67206  
 ATTN: Leah Kasten

**27-21s-19w Pawnee, KS**

**Wood Trust #2**

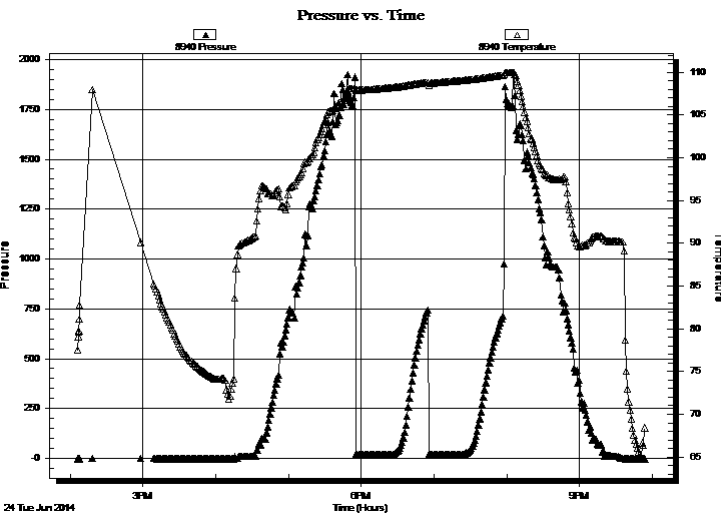
Job Ticket: 54060 **DST#: 1**  
 Test Start: 2014.06.24 @ 14:06:00

**GENERAL INFORMATION:**

Formation: **KC Drum**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:55:00  
 Time Test Ended: 21:54:30  
 Interval: **3804.00 ft (KB) To 3832.00 ft (KB) (TVD)**  
 Total Depth: 3832.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2076.00 ft (KB)  
 2066.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8940 Outside**  
 Press@RunDepth: psig @ 3808.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.24 End Date: 2014.06.24 Last Calib.: 2014.06.24  
 Start Time: 14:06:05 End Time: 21:54:29 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IF- 1/4" in 7 minutes, died  
 30 - IS- No return  
 30 - FF- No blow  
 30 - FS- No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	Mud, 100%M	0.07

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita KS, 67206  
ATTN: Leah Kasten

**27-21s-19w Pawnee,KS**  
**Wood Trust #2**  
Job Ticket: 54060 **DST#: 1**  
Test Start: 2014.06.24 @ 14:06:00

## Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.80 inches	Volume: 50.78 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	66000.00 lb
			<u>Total Volume: 51.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3804.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 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
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Change Over Sub	1.00			3776.00	
Shut In Tool	5.00			3781.00	
Hydraulic tool	5.00			3786.00	
Jars	5.00			3791.00	
Safety Joint	3.00			3794.00	
Packer	5.00			3799.00	29.00 Bottom Of Top Packer
Packer	5.00			3804.00	
Perforations	4.00			3808.00	
Recorder	0.00	8648	Inside	3808.00	
Recorder	0.00	8940	Outside	3808.00	
Perforations	21.00			3829.00	
Bullnose	3.00			3832.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita KS, 67206  
ATTN: Leah Kasten

**27-21s-19w Pawnee,KS**  
**Wood Trust #2**  
Job Ticket: 54060      **DST#: 1**  
Test Start: 2014.06.24 @ 14:06:00

## Mud and Cushion Information

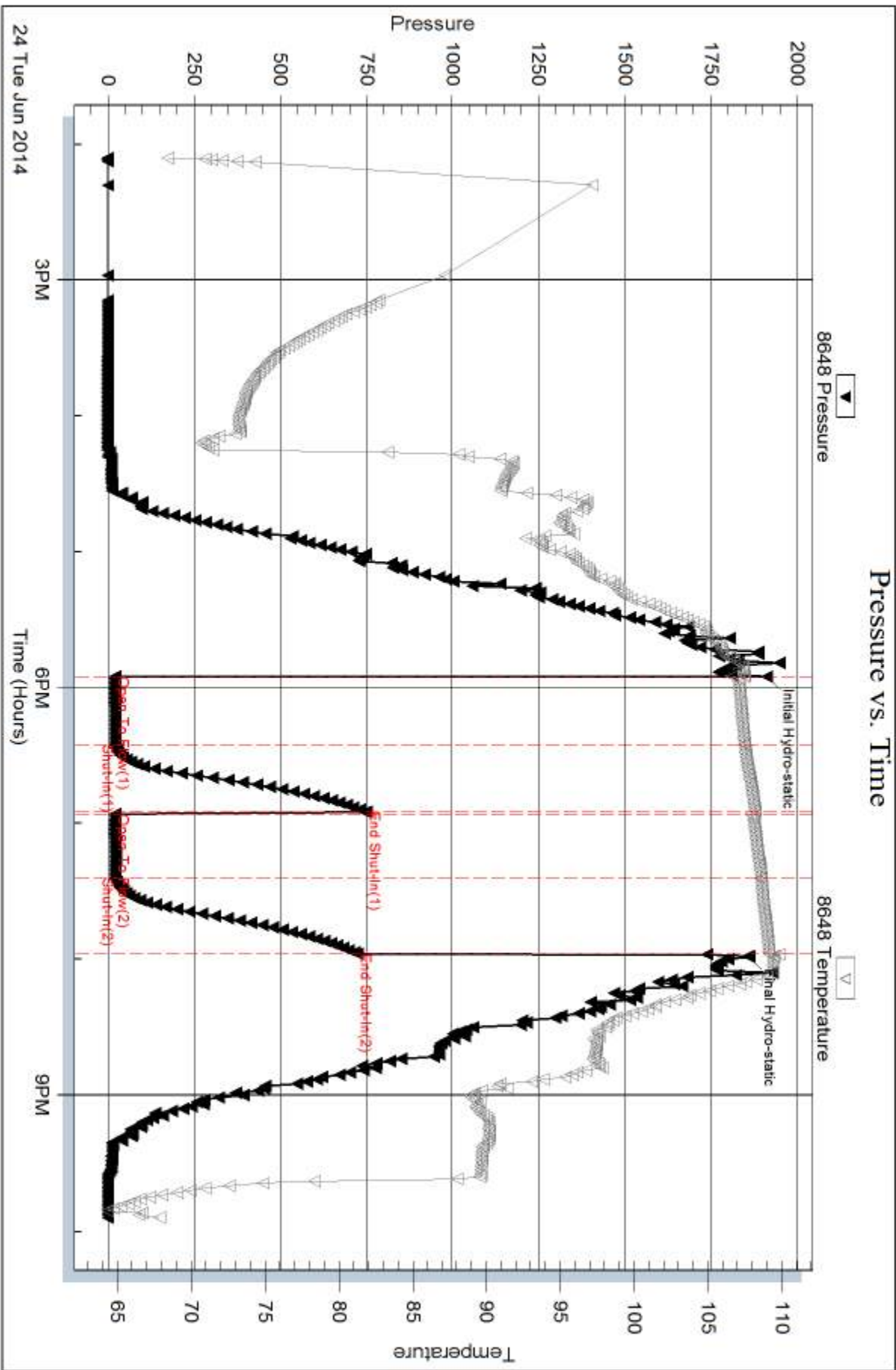
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud, 100%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

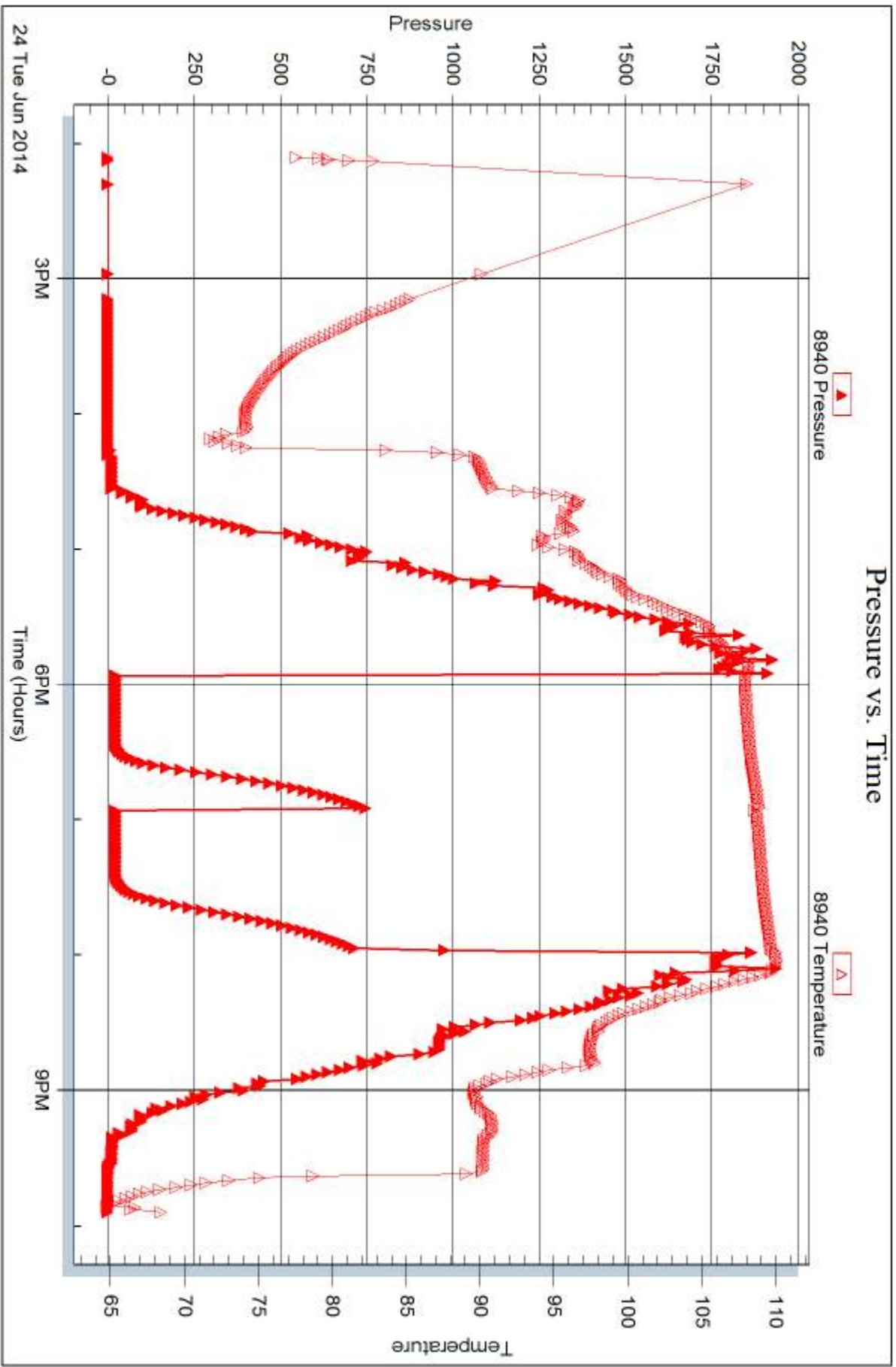


Serial #: 8940

Outside CMX Inc

Wood Trust #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54060

Printed: 2014.06.27 @ 11:06:10





## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

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

ATTN: Leah Kasten

### **Wood Trust #2**

#### **27-21s-19w Pawnee,KS**

Start Date: 2014.06.25 @ 08:13:00

End Date: 2014.06.25 @ 17:01:00

Job Ticket #: 54061                      DST #: 2

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

Printed: 2014.06.27 @ 11:03:59

CMX Inc  
27-21s-19w Pawnee,KS  
Wood Trust #2  
DST # 2  
Swope  
2014.06.25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
 1700 N. Waterfront Pkwy  
 Bldg 300 B  
 Wichita KS, 67206  
 ATTN: Leah Kasten

**27-21s-19w Pawnee, KS**

**Wood Trust #2**

Job Ticket: 54061 **DST#: 2**

Test Start: 2014.06.25 @ 08:13:00

## GENERAL INFORMATION:

Formation: **Swope**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 10:55:15 Tester: Cody Bloedorn  
 Time Test Ended: 17:01:00 Unit No: 73  
 Interval: **3895.00 ft (KB) To 3922.00 ft (KB) (TVD)** Reference Elevations: 2076.00 ft (KB)  
 Total Depth: 3922.00 ft (KB) (TVD) 2066.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

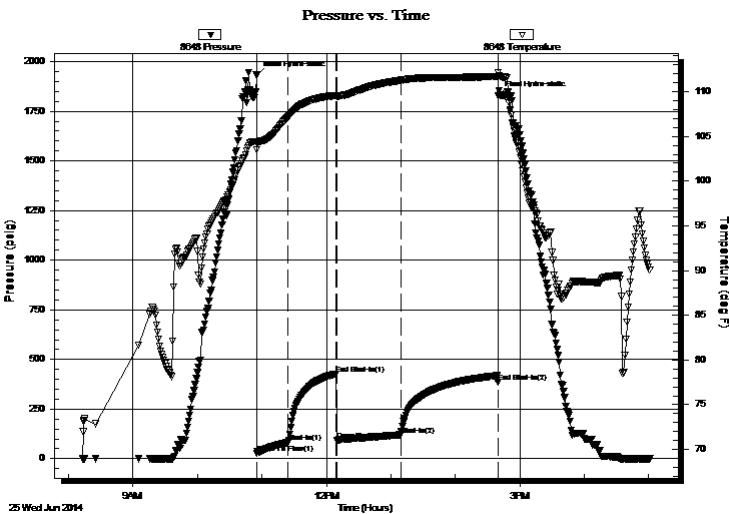
## Serial #: 8648

Inside

Press@RunDepth: 119.81 psig @ 3898.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.25 End Date: 2014.06.25 Last Calib.: 2014.06.25  
 Start Time: 08:13:05 End Time: 17:01:00 Time On Btm: 2014.06.25 @ 10:55:00  
 Time Off Btm: 2014.06.25 @ 14:39:45

TEST COMMENT: 30 - IF- 7" blow  
 45 - IS- Surface return  
 60 - FF- B.O.B. in 33 minutes  
 90 - FS- 1/2" return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.71	104.44	Initial Hydro-static
1	27.59	103.52	Open To Flow (1)
30	81.64	107.18	Shut-In(1)
75	427.67	109.57	End Shut-In(1)
75	92.63	109.47	Open To Flow (2)
134	119.81	111.26	Shut-In(2)
225	386.32	111.66	End Shut-In(2)
225	1826.90	112.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW, 20%M, 80%W	0.61
62.00	SOCWM, 10%O, 20%W, 70%M	0.36
62.00	VSOCM, 5%O, 95%M	0.87
15.00	HOCM, 50%O, 50%M	0.21
0.00	169' of G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita KS, 67206  
ATTN: Leah Kasten

**27-21s-19w Pawnee, KS**

**Wood Trust #2**

Job Ticket: 54061 **DST#: 2**

Test Start: 2014.06.25 @ 08:13:00

### GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:55:15

Time Test Ended: 17:01:00

Interval: **3895.00 ft (KB) To 3922.00 ft (KB) (TVD)**

Total Depth: 3922.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Reference Elevations: 2076.00 ft (KB)

2066.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8940 Outside**

Press@RunDepth: psig @ 3898.00 ft (KB)

Start Date: 2014.06.25 End Date: 2014.06.25 Capacity: 8000.00 psig

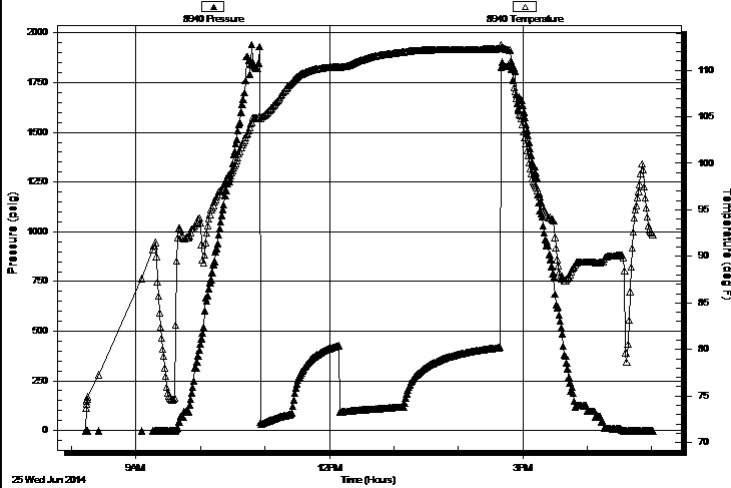
Start Time: 08:13:05 End Time: 17:01:00 Last Calib.: 2014.06.25

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 7" blow  
45 - IS- Surface return  
60 - FF- B.O.B. in 33 minutes  
90 - FS- 1/2" return

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW, 20%M, 80%W	0.61
62.00	SOCWM, 10%O, 20%W, 70%M	0.36
62.00	VSOCM, 5%O, 95%M	0.87
15.00	HOCM, 50%O, 50%M	0.21
0.00	169' of G.I.P.	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  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita KS, 67206  
ATTN: Leah Kasten

**27-21s-19w Pawnee,KS**  
**Wood Trust #2**  
Job Ticket: 54061 **DST#: 2**  
Test Start: 2014.06.25 @ 08:13:00

**Tool Information**

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 52.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3895.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	56.00 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			3867.00	
Shut In Tool	5.00			3872.00	
Hydraulic tool	5.00			3877.00	
Jars	5.00			3882.00	
Safety Joint	3.00			3885.00	
Packer	5.00			3890.00	29.00 Bottom Of Top Packer
Packer	5.00			3895.00	
Perforations	3.00			3898.00	
Recorder	0.00	8648	Inside	3898.00	
Recorder	0.00	8940	Outside	3898.00	
Perforations	21.00			3919.00	
Bullnose	3.00			3922.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc  
1700 N. Waterfront Pkwy  
Bldg 300 B  
Wichita KS, 67206  
ATTN: Leah Kasten

**27-21s-19w Pawnee,KS**  
**Wood Trust #2**  
Job Ticket: 54061      **DST#: 2**  
Test Start: 2014.06.25 @ 08:13:00

## Mud and Cushion Information

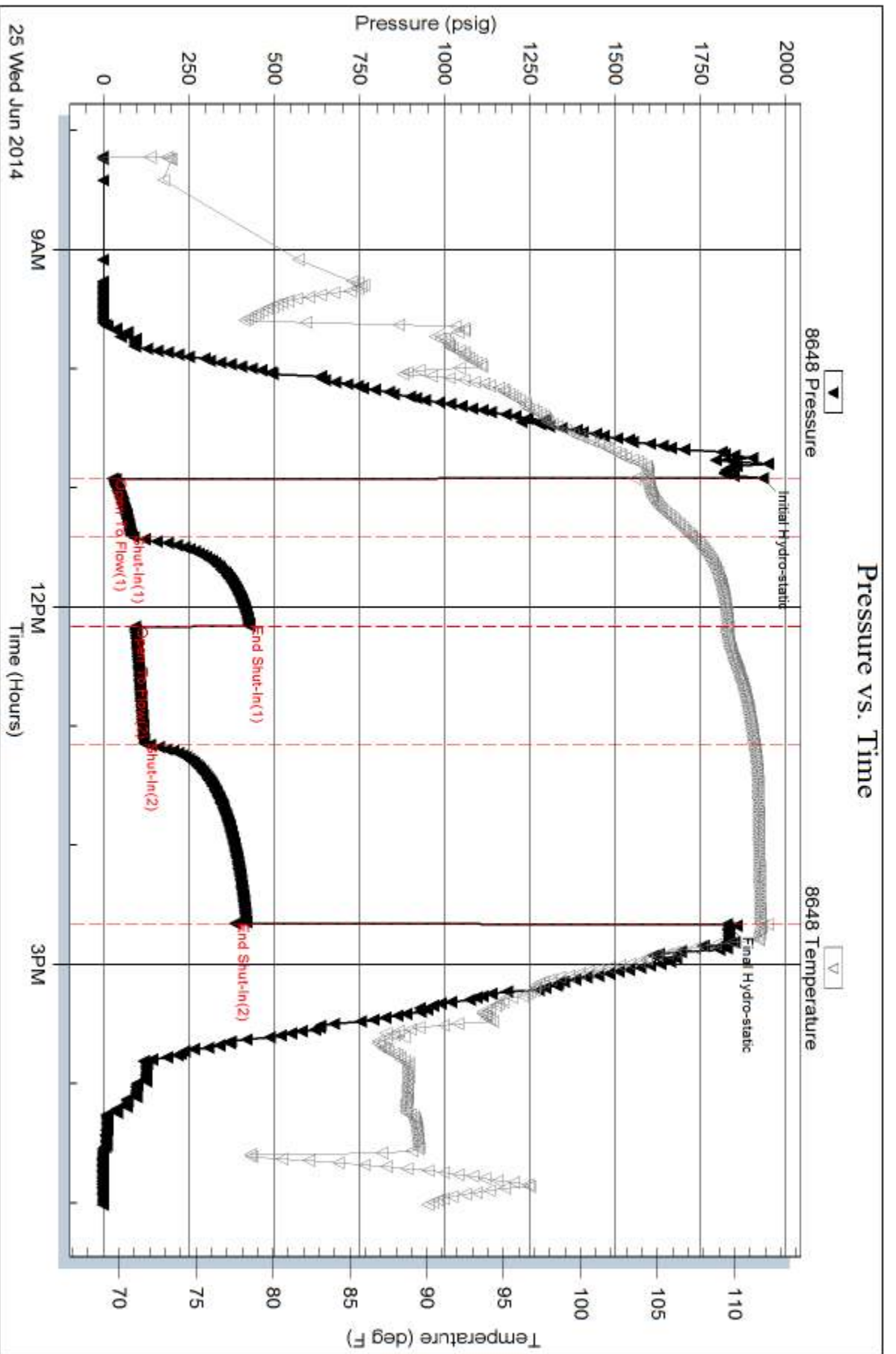
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	49000 ppm
Viscosity: sec/qt	Cushion Volume: bbl		
Water Loss: 9.15 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW, 20%M, 80%W	0.610
62.00	SOCWM, 10%O, 20%W, 70%M	0.360
62.00	VSOCM, 5%O, 95%M	0.870
15.00	HOCM, 50%O, 50%M	0.210
0.00	169' of G.I.P.	0.000

Total Length: 263.00 ft      Total Volume: 2.050 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Salinity: .12 @ 88 Degrees = 49,000

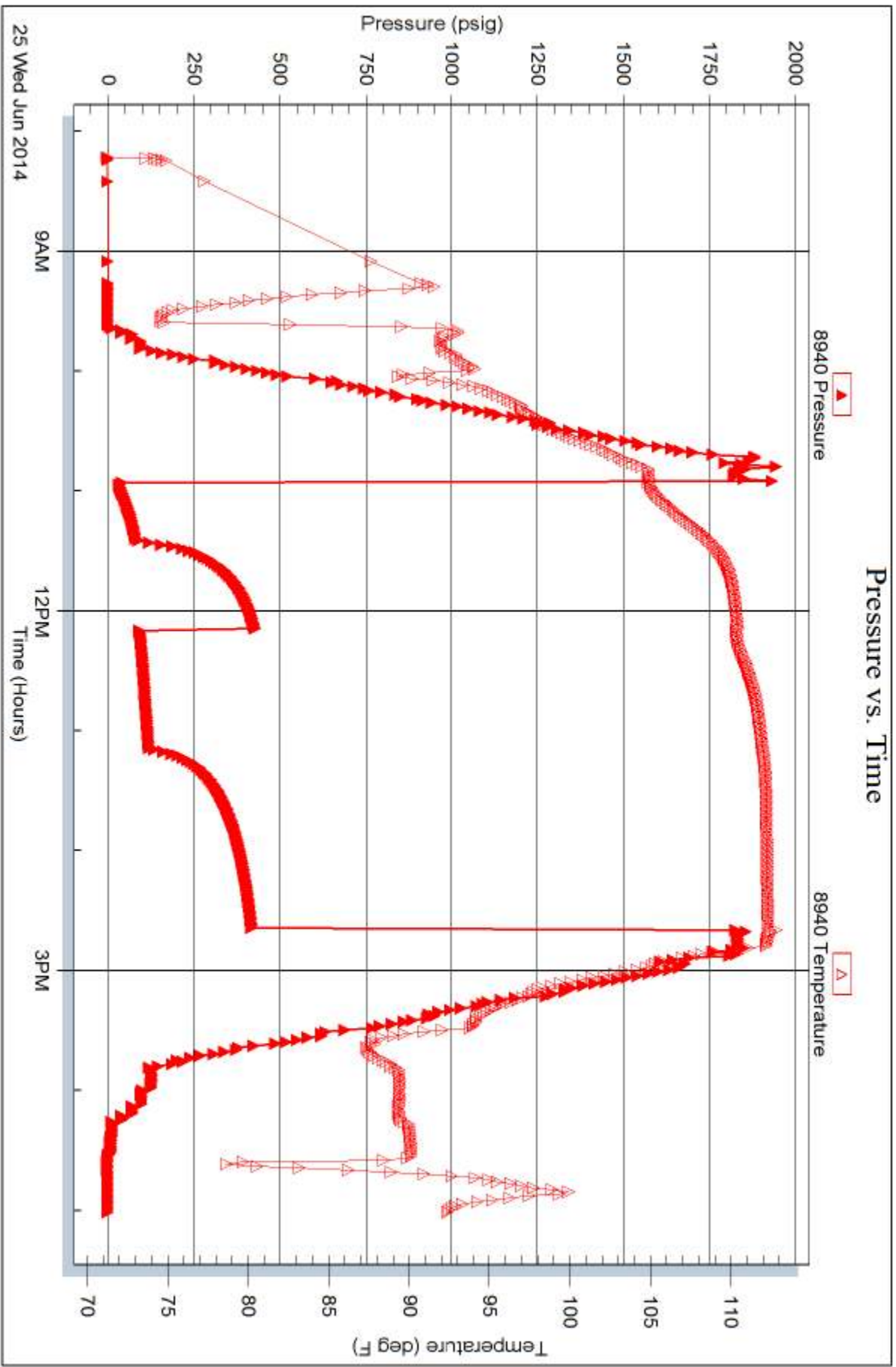


Serial #: 8940

Outside CMX Inc

Wood Trust #2

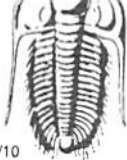
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54061

Printed: 2014.06.27 @ 11:04:00



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54060

Well Name & No. Woods Trust #2 Test No. 1 Date 6-24-14  
 Company CMX Inc Elevation 2076 KB 2066 GL  
 Address 1700 N. Waterfront Pkwy Bldg 300B, Wichita KS, 67206  
 Co. Rep / Geo. Leah Kasten Rig Duke #7  
 Location: Sec. 27 Twp. 21s Rge. 19w Co. Pawnee State KS

Interval Tested 3804-3832 Zone Tested KC "Drum"  
 Anchor Length 28' Drill Pipe Run 3620' Mud Wt. 8.6  
 Top Packer Depth 3799 Drill Collars Run 180' Vis \_\_\_\_\_  
 Bottom Packer Depth 3804 Wt. Pipe Run — WL 9.2  
 Total Depth 3832 Chlorides 3,100 ppm System LCM \_\_\_\_\_

Blow Description IF- 1/4" in 7 minutes, died off  
ISI- No return  
FF- No blow  
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1912  Test 1150 T-On Location 1338  
 (B) First Initial Flow 20  Jars 250 T-Started 1406  
 (C) First Final Flow 21  Safety Joint 75 T-Open 1755  
 (D) Initial Shut-In 749  Circ Sub \_\_\_\_\_ T-Pulled 1955  
 (E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 2155  
 (F) Second Final Flow 21  Mileage 115RT 178.25 Comments Hotel  
 (G) Final Shut-In 723  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1858  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1653.25  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

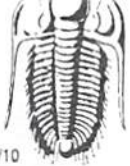
Sub Total 1653.25

Approved By \_\_\_\_\_

Our Representative Cody Bledorn

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. 54061

Well Name & No. Woods Trust #2 Test No. 2 Date 6-25-14  
 Company CMX INC Elevation 2076 KB 2066 GL  
 Address 1700 N. Waterfront Pkwy Bldg 300 B, Wichita KS, 67206  
 Co. Rep / Geo. Leah Kasten Rig Duke #7  
 Location: Sec. 27 Twp. 21s Rge. 19w Co. Pawnee State KS

Interval Tested 3895-3922 Zone Tested Swope  
 Anchor Length 27' Drill Pipe Run 3714' Mud Wt. 8.6  
 Top Packer Depth 3890 Drill Collars Run 180' Vis \_\_\_\_\_  
 Bottom Packer Depth 3895 Wt. Pipe Run - ~~1500~~ WL 9.2  
 Total Depth 3922 Chlorides 3,100 ppm System LCM \_\_\_\_\_

Blow Description IF - 7" blow  
ISI - surface return  
FF - B.O.B. in 33 minutes  
FSI - 1/2" Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>MW</u>			<u>80</u>	<u>20</u>
<u>62</u>	<u>SOCWM</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>0</u>
<u>62</u>	<u>VSOCM</u>	<u>5</u>		<u>95</u>	<u>0</u>
<u>15</u>	<u>HOCM</u>	<u>50</u>		<u>50</u>	<u>0</u>
	<u>169' of G.I.P.</u>				

Rec Total 263' BHT 112° Gravity \_\_\_\_\_ API RW .12 @ 88 °F Chlorides 49,000 ppm

(A) Initial Hydrostatic <u>1930</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0800</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0813</u>
(C) First Final Flow <u>81</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1055</u>
(D) Initial Shut-In <u>427</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1440</u>
(E) Second Initial Flow <u>92</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1702</u>
(F) Second Final Flow <u>119</u>	<input checked="" type="checkbox"/> Mileage <u>115RT</u> 356.50	Comments <u>Hotel</u>
(G) Final Shut-In <u>386</u>	<input type="checkbox"/> Sampler _____	<u>load tools on 6/24/14 @ 5:20pm</u>
(H) Final Hydrostatic <u>1826</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>over 24hrs</u>	Total <u>1831.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1831.50</u>	

Approved By \_\_\_\_\_ Our Representative Cody Bloodorn

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