

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. 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	REBARCHEK 1-18
Doc ID	1392366

All Electric Logs Run

Neutron Porosity
Induction Resistivity
Microresistivity
Sonic

Form	ACO1 - Well Completion
Operator	CMX, Inc.
Well Name	REBARCHEK 1-18
Doc ID	1392366

Tops

Name	Top	Datum
Anhydrite	2278	534
B/Anhy	2300	512
Heebner	3810	-998
Lansing	3848	-1036
Stark	4097	-1285
Ft Scott	4354	-1542
Johnson Zone	4427	-1615
Mississippian	4506	-1694



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	01/15/2018
INVOICE NUMBER			
92612995			

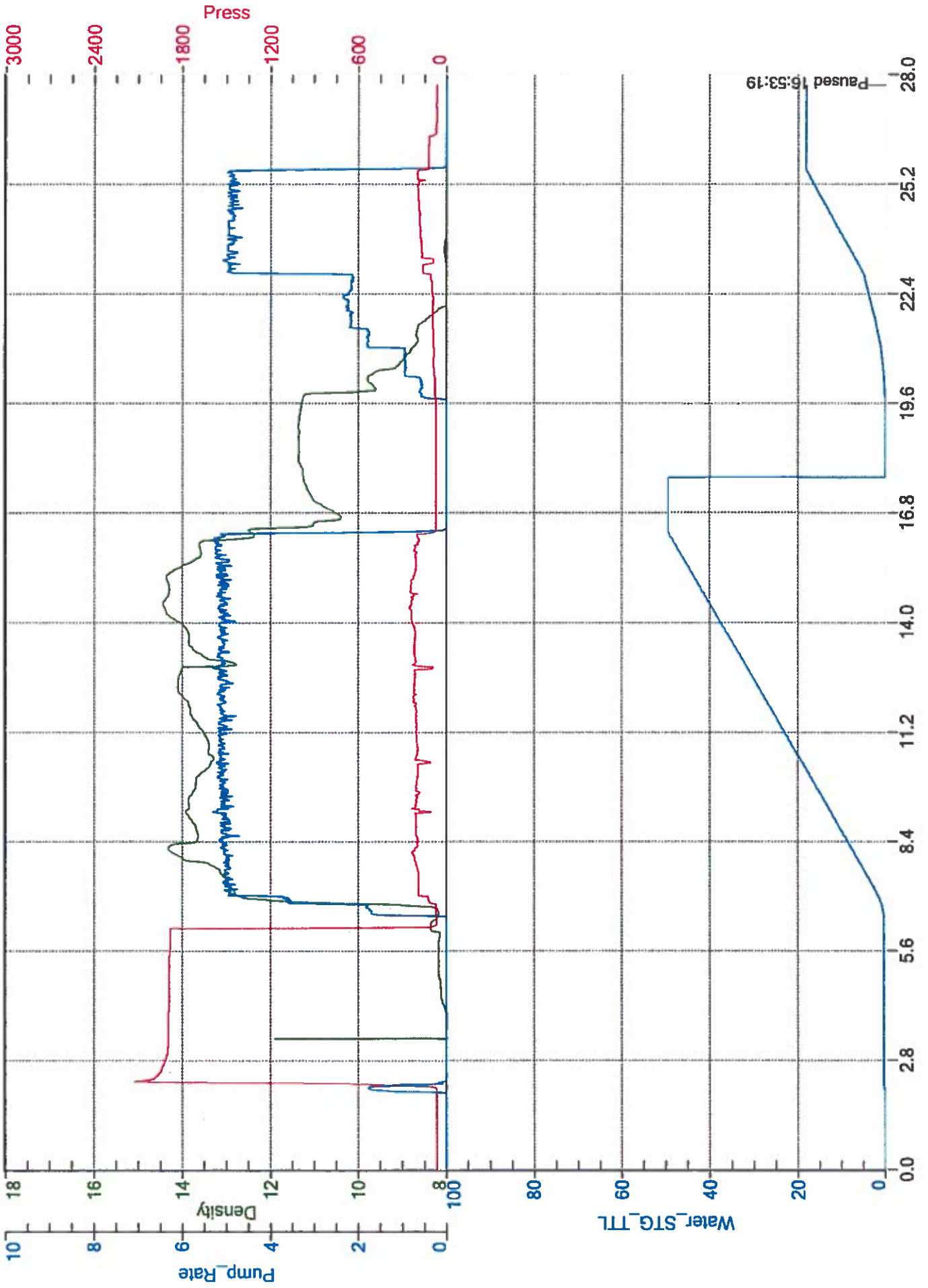
Pratt (620) 672-1201 J LEASE NAME Rebarcek 1-18
 B CMX INC JOB LOCATION
 I 1700 N WATERFRONT PKWY BLDG 300 STE B COUNTY Gove
 L WICHITA STATE KS
 L KS US 67206 S JOB DESCRIPTION Cement-New Well Casing/Pi
 T O ATTN: ACCOUNTS PAYABLE E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41081322	19919		Net - 30 days	02/14/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 01/11/2018 to 01/11/2018</i>				
0041081322				
171815542L Cement-New Well Casing/Pi 01/11/2018 Cement Surface				
60/40 POZ	185.00	EA	6.60	1,221.00 T
Celloflake	47.00	EA	2.04	95.88 T
Calcium Chloride	480.00	EA	0.58	278.40 T
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.48	248.00
Heavy Equipment Mileage	200.00	MI	4.13	826.00
Proppant & Bulk Del. Chgs., per ton mil	800.00	EA	1.38	1,104.00
Blending & Mixing Service Charge	185.00	BAG	0.77	142.45
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	4,699.48
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	135.60
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,835.08
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

CMX Inc.
Rebarchek #1-18





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	01/26/2018
INVOICE NUMBER			
92622277			

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

J LEASE NAME Rebarchek 1-18
 O LOCATION
 B COUNTY Gove
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41083630	19843		Net - 30 days	02/25/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 01/24/2018 to 01/24/2018</i>				
0041083630				
171816073A Cement-New Well Casing/Pi 01/24/2018 Cement 2 Stage 5 1/2" Longstring				
AA2 Cement	185.00	EA	9.35	1,729.75 T
A-Con' Blend	315.00	EA	9.90	3,118.50 T
60/40 POZ	50.00	EA	6.60	330.00 T
Celloflake	125.00	EA	2.03	254.37 T
Salt	925.00	EA	0.27	254.37 T
Gypsum	870.00	EA	0.41	358.87 T
FLA-322	140.00	EA	4.13	577.50 T
Gilsonite	925.00	EA	0.37	340.86 T
Calcium Chloride	891.00	EA	0.58	514.55 T
Cement Gel	84.00	EA	0.14	11.55 T
Mud Flush	500.00	EA	0.83	412.50 T
"Two Stage Cement Collar, 5 1/2" (Blue)	1.00	EA	2,475.00	2,475.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	198.00	198.00
"5 1/2" Basket (Blue)"	1.00	EA	159.50	159.50
"Turbolizer, 5 1/2" (Blue)"	10.00	EA	60.50	605.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.48	247.50
Heavy Equipment Mileage	300.00	MI	4.13	1,237.50
Proppant & Bulk Del. Chgs., per ton mil	2,565.00	EA	1.37	3,526.87
Blending & Mixing Service Charge	550.00	BAG	0.77	423.50
Plug Container Util. Chg.	1.00	EA	137.50	137.50
Depth Charge; 4001'-5000'	1.00	EA	1,386.00	1,386.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.28	96.28

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	18,395.47
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	671.74
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	19,067.21
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH: 70

FIELD SERVICE TICKET
1718 16073 A

18-145-31W

DATE _____ TICKET NO. _____

DATE OF JOB: <u>1/24/2018</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</u>	LEASE: <u>Rebarchek</u>		WELL NO. <u>1-18</u>				
ADDRESS:	COUNTY: <u>Gove</u>	STATE: <u>KS</u>					
CITY:	SERVICE CREW: <u>Derrin, Ed, m. Clymer</u>						
AUTHORIZED BY:	JOB TYPE: <u>242/5 1/2 2 St+99e Longstring</u>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE (AM/PM) TIME
<u>19843</u>	<u>3 3/4</u>						<u>1/24 AM 6:30</u>
<u>73768</u>	<u>1/2</u>					ARRIVED AT JOB	<u>1/24 PM 12:15</u>
<u>37725</u>	<u>1/2</u>					START OPERATION	<u>1/24 AM 5:30</u>
						FINISH OPERATION	<u>1/24 AM 9:15</u>
						RELEASED	<u>1/24 AM 10:00</u>
						MILES FROM STATION TO WELL	<u>203</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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	185		3,145 00
CP101	A-Con Blend Common (L18)	SK	315		5,170 00
CP103	60/40 po2	SK	50		600 00
CC102	Cellofloc	Lb	125		462 50
CC111	S91+	Lb	925		462 50
CC113	Gypsum	Lb	870		652 50
CC129	FLA-322	Lb	140		1,050 00
CC201	Gilsonite	Lb	925		619 75
CC109	Calcium Chloride	Lb	891		935 55
CC200	Cement Gel	Lb	84		21 00
CF451	Two Stage Cement Collar, 5 1/2" (Blue)	E9	1		4,500 00
CF1251	Auto Fill Flost Shear 5 1/2" (Blue)	E9	1		360 00
CF1901	5 1/2" Basket (Blue)	E9	1		290 00
CF1651	Turbolizer, 5 1/2" (Blue)	E9	10		1,100 00
CC151	mud Flush	G91	500		750 00
E100	unit mileage Chrs - pellets, small users & CSIS Wg, ^{one}	m.	100		450 00
E101	Heavy Equipment Mileage	m.	300		2,250 00
E113	Propan+ and Bulk Delivery Charges, per ton mix	TWh	2565		6,412 50

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH' 70

FIELD SERVICE TICKET
1718 16073 A

18-145-314

DATE TICKET NO.

DATE OF JOB: 1/24/2018	DISTRICT: Pr912, KS	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: CMX	LEASE: Reberchels	WELL NO. 1-18					
ADDRESS:	COUNTY: Gove	STATE: KS					
CITY:	STATE:	SERVICE CREW: Dson, Ed, m. Clymer					
AUTHORIZED BY:	JOB TYPE: 242/5 1/2 2 Stage Longline						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE (AM/PM) TIME
19543	3 3/4						1/24 AM 6:30
73768	1/2						ARRIVED AT JOB 1/24 PM 12:15
37725	1/2						START OPERATION 1/24 AM 5:30
							FINISH OPERATION 1/24 AM 9:15
							RELEASED 1/24 AM 10:00
						MILES FROM STATION TO WELL	203

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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	185		3,145 00
CP101	A con Blend Common (100)	SK	315		5,170 00
CP103	60/40 Poz	SK	50		600 00
CC102	Cellofibre	Lb	125		462 50
CC111	SGT	Lb	925		462 50
CC113	Gypsum	Lb	870		652 50
CC129	FLA-322	Lb	140		1,050 00
CC201	Gilsonite	Lb	925		619 75
CC109	Calcium Chloride	Lb	891		935 55
CC200	Cement Gel	Lb	84		21 00
CF451	Two 5+9.92 Cement Casing 5 1/2" (Blue)	ES	1		4,500 00
CF1251	Mud Fil Filter 5 1/2" (Blue)	ES	1		360 00
CF1901	5 1/2" Baskets (Blue)	ES	1		290 00
CF1651	Turbolizer 5 1/2" (Blue)	ES	10		1,100 00
CC151	Mud Flush	Gal	500		750 00
E100	un. mileage Charge - Pickups, Sals, USG & CSIS Lic, one	m	100		450 00
E701	HECU Equipment Mileage	m	300		2,250 00
E113	Propan 900 Bulk Delivery, Charges, per 100 mlk	100ml	2565		6,412 50

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: [Signature]
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

Stage #1

TREATMENT REPORT

Customer CMX	Lease No.	Date 1/24/2018
Lease ReberChex	Well # 1-18	
Field Order # 16073	Station Pratt, KS	Casing 5 1/2
		Depth 4601
Type Job	Formation TD-4600	Legal Description 18-145-31W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2				Pre Pad	Max		5 Min.	
Depth 4601	Depth	From	To	Pad	Min		10 Min.	
Volume 109.5	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush Water, mud	Gas Volume		Total Load	
Plug Depth 4380	Packer Depth	From	To					

Customer Representative Keith Bright	Station Manager Justin Westerman	Treater Darin Franklin
Service Units 92911	64981	19843
19903	73768	
Driver Names Darin	Ed	Ed
Clymer	Clymer	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:15pm					On Location / Safety meeting
					5 1/2 Casing - 4601', C-1, 3, 5, 7, 9, 11, 13, 15, 17, 19
					B-2, DU TOOL - H54 2317'
					1855K AA2 Cement, 10% SS12, 10% Gyp
					0.8% fluid loss, 5pps silsonite, 25pps Cellulose
					14.8 pps, 1.54 vol% , 6.63 water
4:00pm					Pipe on bottom break circulation
3:30pm	300		3	5	Pump 3 bbls water
	300		12	5	Pump 12 bbls Flush
	300		3	5	Pump 3 bbls water
	300		51	5	mix 1855K AA2
					Shut down
					Wash pumped lined drop Plug
	100		0	5 1/2	Start displacement
	300		77	5 1/2	Lift Pressure
	600		100	3	Slow Rate
	1600		105	3	Bump Plug
					Flow - Hold
	800		1/4	1/4	Drop DU opening Dert
					Open DU Tool
7:00pm					Circulate hr with Rig

BASIC

energy services, L.P.

ST 950 # 2

TREATMENT REPORT

Customer CMX	Lease No.	Date 1/24/2018
Lease Pebrcheik	Well # 1-18	
Field Order # 16073	Station Pratt, KS	Casing 5 1/2
		Depth 4601
Type Job 242/3 1/2' 2 stage Longstring	Formation TD-4600	Legal Description 18-145-31

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 2317	Depth	From	To	Pre Pad	Max			5 Min.
Volume 55	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 2317	Packer Depth	From	To	Flush Water	Gas Volume			Total Load

Customer Representative Krieth Brisa	Station Manager Justin Westerman	Treater Darin Franklin
Service Units 7211	84981	19843
30464	37725	
Driver Names Darin	Ed	Ed
	Clymer	Clymer

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					3155K A-Con Blend Common
					3% Calcium Chloride, 25pos Cellofloc
					11.8ppg, 2.61 yield, 15.55 water
8:00pm	600		146	6	mix 3155K Cement
					Shut down
					Wash Pump & lines & Release Plug
	600		0	6	Start displacement
8:51pm	2,000		56	3	Bump Plug & Close Tool
					Flood - Held
					Circulate 15 bbls Cement
9:15pm					Job Complete/Darin & crew
					Thank you!!!



DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Leah Kasten

Rebarchek #1-18

18-14s-31w Gove,KS

Start Date: 2018.01.17 @ 09:50:00

End Date: 2018.01.17 @ 20:02:15

Job Ticket #: 64389 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.24 @ 14:13:13

CMX, Inc. 18-14s-31w Gove,KS Rebarchek #1-18 DST # 1 LKC B - D 2018.01.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

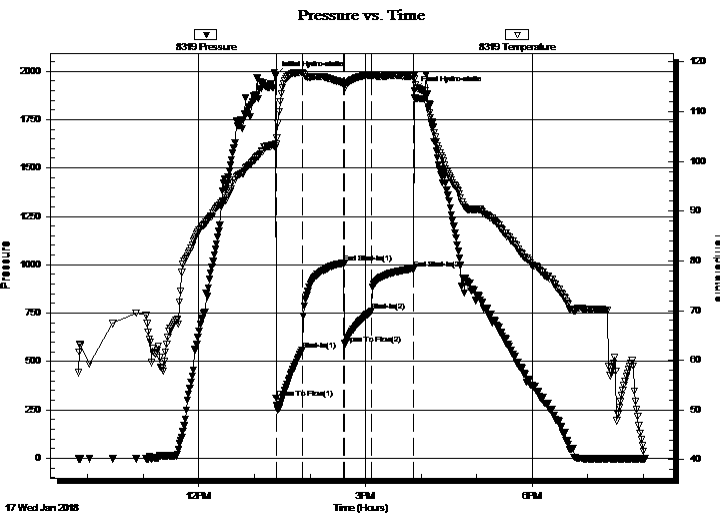
18-14s-31w Gove, KS
Rebarchek #1-18
 Job Ticket: 64389 **DST#: 1**
 Test Start: 2018.01.17 @ 09:50:00

GENERAL INFORMATION:

Formation: **LKC B - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:23:30
 Time Test Ended: 20:02:15
 Interval: **3873.00 ft (KB) To 3942.00 ft (KB) (TVD)**
 Total Depth: 3942.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2814.00 ft (KB)
 2805.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8319 Outside
 Press@RunDepth: 760.32 psig @ 3874.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.01.17 End Date: 2018.01.17 Last Calib.: 2018.01.17
 Start Time: 09:50:05 End Time: 20:02:15 Time On Btm: 2018.01.17 @ 13:22:45
 Time Off Btm: 2018.01.17 @ 15:53:00

TEST COMMENT: IF: BOB @ 1 min.
 IS: 5" return.
 FF: BOB @ 30 sec.
 FS: Did not bleed off presure.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.75	102.80	Initial Hydro-static
1	310.33	103.43	Open To Flow (1)
29	560.51	117.86	Shut-In(1)
74	1008.68	115.81	End Shut-In(1)
75	592.68	115.36	Open To Flow (2)
104	760.32	117.34	Shut-In(2)
149	979.43	117.04	End Shut-In(2)
151	1900.21	116.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	smcw 5m 95w w/oil spots	5.05
320.00	gw co 15g 20w 65o	4.49
630.00	gmocw 5g 10m 30o 55w	8.84
560.00	mw co 15m 35w 50o	7.86
0.00	380' GIP	0.00

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 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64389 **DST#: 1**
Test Start: 2018.01.17 @ 09:50:00

Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3873.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	96.00 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			3847.00	
Shut In Tool	5.00			3852.00	
Hydraulic tool	5.00			3857.00	
Jars	5.00			3862.00	
Safety Joint	2.00			3864.00	
Packer	5.00			3869.00	27.00 Bottom Of Top Packer
Packer	4.00			3873.00	
Stubb	1.00			3874.00	
Recorder	0.00	8522	Inside	3874.00	
Recorder	0.00	8319	Outside	3874.00	
Perforations	32.00			3906.00	
Change Over Sub	1.00			3907.00	
Drill Pipe	31.00			3938.00	
Change Over Sub	1.00			3939.00	
Bullnose	3.00			3942.00	69.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64389 **DST#: 1**
Test Start: 2018.01.17 @ 09:50:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 38000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

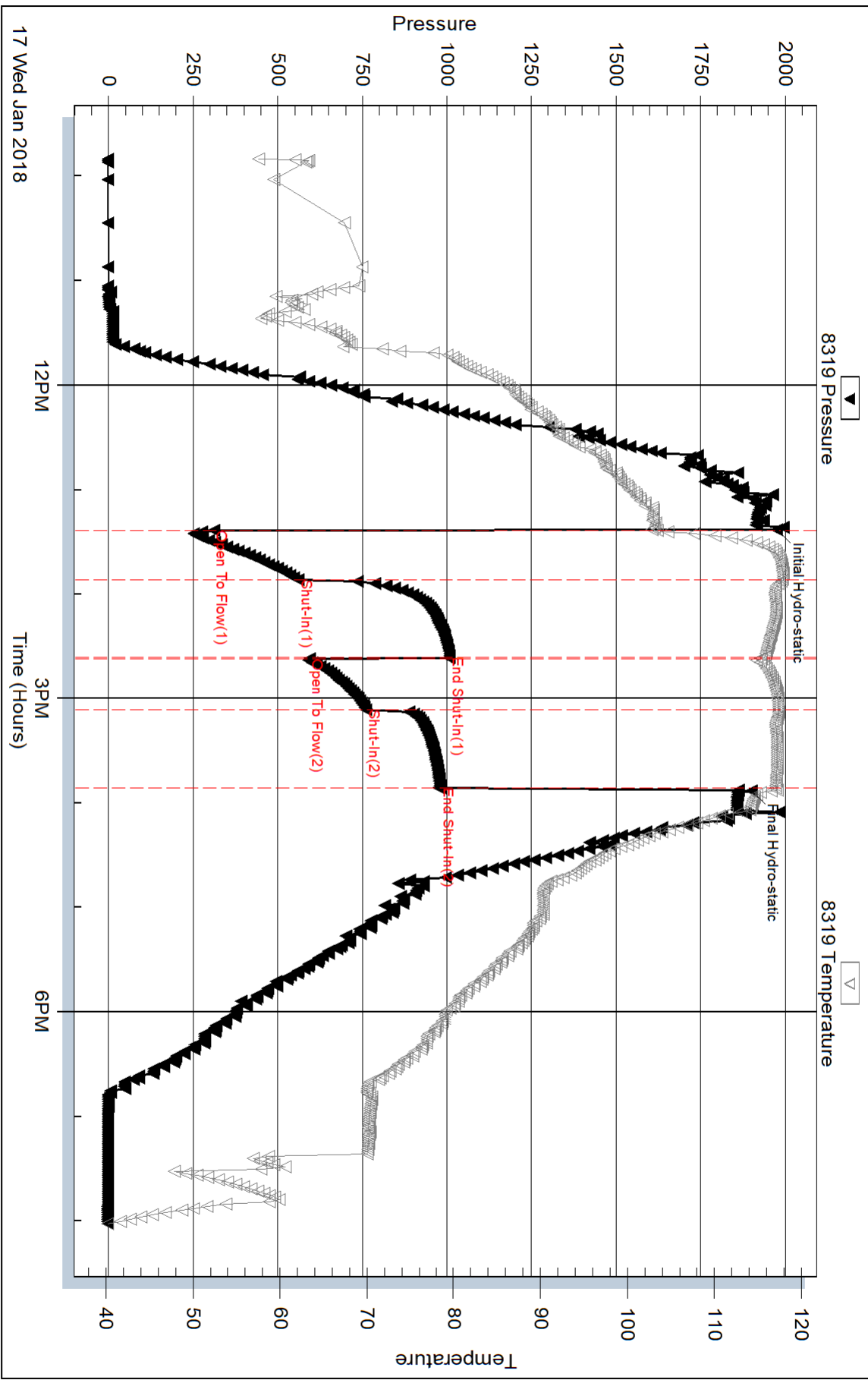
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	smcw 5m 95w w/oil spots	5.050
320.00	gw co 15g 20w 65o	4.489
630.00	gmocw 5g 10m 30o 55w	8.837
560.00	mw co 15m 35w 50o	7.855
0.00	380' GIP	0.000

Total Length: 1870.00 ft Total Volume: 26.231 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .331 @ 40f = 38000ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Leah Kasten

Rebarchek #1-18

18-14s-31w Gove,KS

Start Date: 2018.01.18 @ 10:26:00

End Date: 2018.01.18 @ 20:35:30

Job Ticket #: 64390 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.24 @ 14:12:51

CMX, Inc. 18-14s-31w Gove,KS Rebarchek #1-18 DST # 2 LKC H 2018.01.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64390 **DST#: 2**
Test Start: 2018.01.18 @ 10:26:00

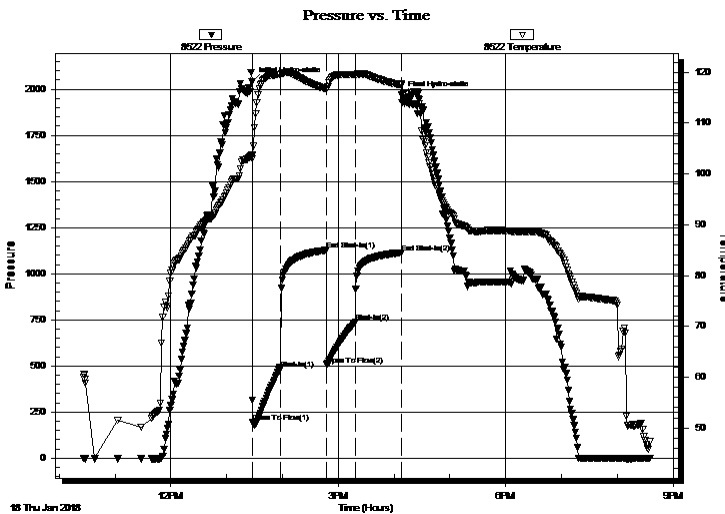
GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:28:00
Time Test Ended: 20:35:30
Interval: **4006.00 ft (KB) To 4042.00 ft (KB) (TVD)**
Total Depth: 4042.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2814.00 ft (KB)
2805.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8522 Inside
Press@RunDepth: 739.04 psig @ 4007.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.01.18 End Date: 2018.01.18 Last Calib.: 2018.01.18
Start Time: 10:26:05 End Time: 20:35:30 Time On Btm: 2018.01.18 @ 13:27:15
Time Off Btm: 2018.01.18 @ 16:08:15

TEST COMMENT: IF: Blow built to 264".
IS: Blow built to 300".
FF: Blow built to 184".
FS: Blow built to 210".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.58	103.67	Initial Hydro-static
1	196.68	103.72	Open To Flow (1)
30	485.99	119.60	Shut-In(1)
80	1127.65	116.72	End Shut-In(1)
81	507.00	116.61	Open To Flow (2)
112	739.04	119.55	Shut-In(2)
161	1112.60	117.51	End Shut-In(2)
161	1967.94	117.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	ocm 25o 75m	1.68
1820.00	go 20g 80o	25.53
0.00	1530' GIP	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 Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove, KS

Rebarchek #1-18

Job Ticket: 64390

DST#: 2

Test Start: 2018.01.18 @ 10:26:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:00

Time Test Ended: 20:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4006.00 ft (KB) To 4042.00 ft (KB) (TVD)

Total Depth: 4042.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2814.00 ft (KB)

2805.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4007.00 ft (KB)

Start Date: 2018.01.18

End Date:

2018.01.18

Start Time: 10:26:05

End Time:

20:35:30

Capacity: 8000.00 psig

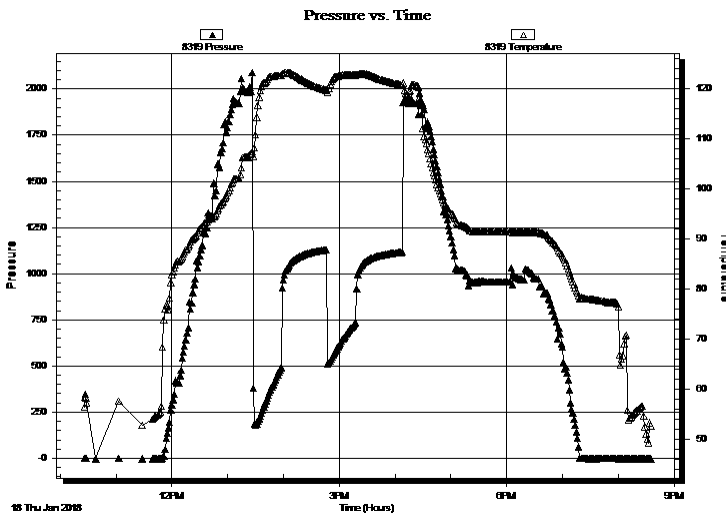
Last Calib.: 2018.01.18

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Blow built to 264".
IS: Blow built to 300".
FF: Blow built to 184".
FS: Blow built to 210"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	ocm 25o 75m	1.68
1820.00	go 20g 80o	25.53
0.00	1530' 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.
1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove, KS
Rebarchek #1-18
Job Ticket: 64390 **DST#: 2**
Test Start: 2018.01.18 @ 10:26:00

Tool Information

Drill Pipe:	Length: 4002.00 ft	Diameter: 3.80 inches	Volume: 56.14 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4006.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			3980.00	
Shut In Tool	5.00			3985.00	
Hydraulic tool	5.00			3990.00	
Jars	5.00			3995.00	
Safety Joint	2.00			3997.00	
Packer	5.00			4002.00	27.00 Bottom Of Top Packer
Packer	4.00			4006.00	
Stubb	1.00			4007.00	
Recorder	0.00	8522	Inside	4007.00	
Recorder	0.00	8319	Outside	4007.00	
Perforations	32.00			4039.00	
Bullnose	3.00			4042.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64390 **DST#: 2**
Test Start: 2018.01.18 @ 10:26:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	ocm 25o 75m	1.683
1820.00	go 20g 80o	25.530
0.00	1530' GIP	0.000

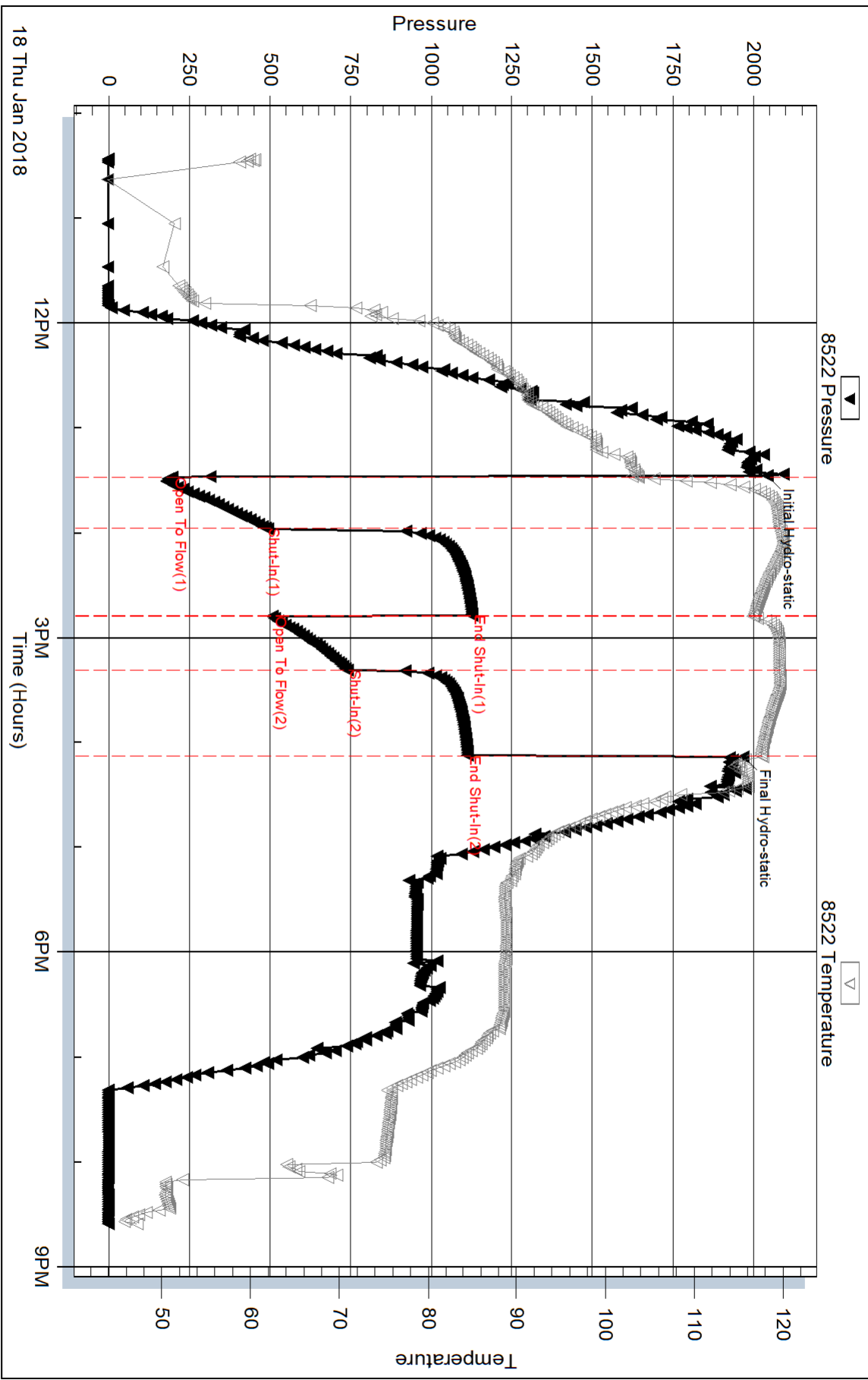
Total Length: 1940.00 ft Total Volume: 27.213 bbl

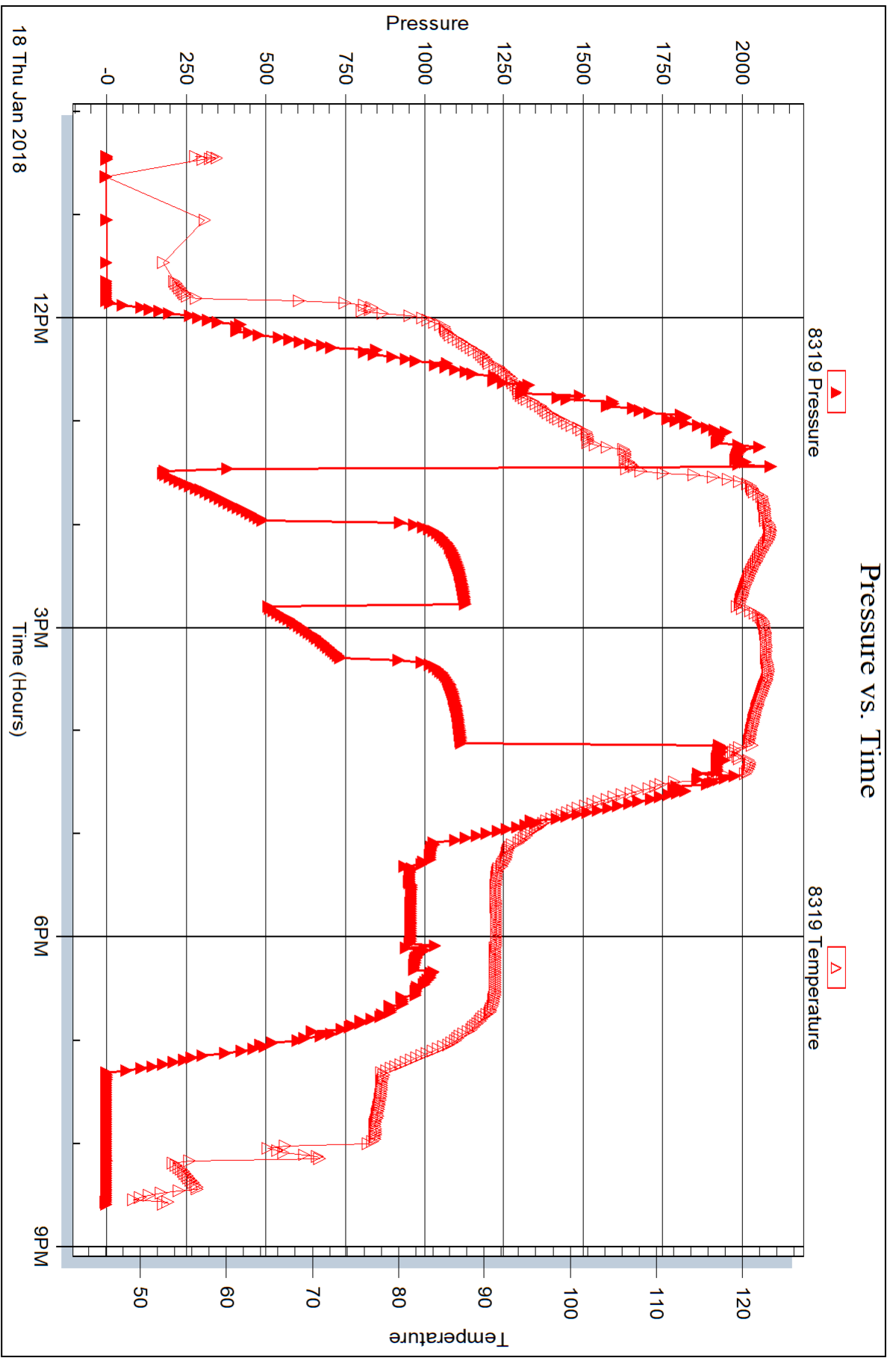
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Leah Kasten

Rebarchek #1-18

18-14s-31w Gove,KS

Start Date: 2018.01.19 @ 05:15:00

End Date: 2018.01.19 @ 13:23:30

Job Ticket #: 64391 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.24 @ 14:12:30

CMX, Inc. 18-14s-31w Gove,KS Rebarchek #1-18 DST # 3 LKC | 2018.01.19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

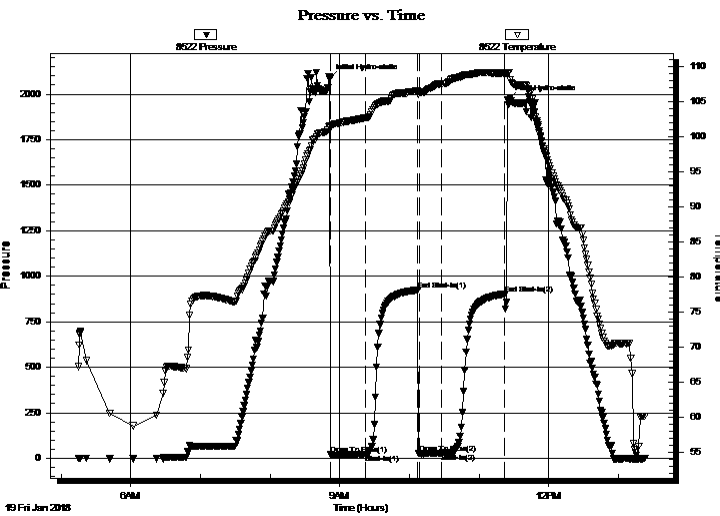
18-14s-31w Gove, KS
Rebarchek #1-18
 Job Ticket: 64391 **DST#: 3**
 Test Start: 2018.01.19 @ 05:15:00

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:52:15
 Time Test Ended: 13:23:30
 Interval: **4042.00 ft (KB) To 4070.00 ft (KB) (TVD)**
 Total Depth: 4070.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2814.00 ft (KB)
 2805.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8522 Inside
 Press@RunDepth: 29.46 psig @ 4043.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.01.19 End Date: 2018.01.19 Last Calib.: 2018.01.19
 Start Time: 05:15:05 End Time: 13:23:29 Time On Btm: 2018.01.19 @ 08:51:30
 Time Off Btm: 2018.01.19 @ 11:25:00

TEST COMMENT: IF: 2" blow .
 IS: No return.
 FF: 1/4" blow .
 FS: No retrun.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.75	101.62	Initial Hydro-static
1	20.19	101.28	Open To Flow (1)
31	22.26	102.74	Shut-In(1)
76	924.57	106.52	End Shut-In(1)
77	27.13	106.31	Open To Flow (2)
97	29.46	107.59	Shut-In(2)
151	902.82	109.11	End Shut-In(2)
154	1970.91	109.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	vsocm 1o 99m	0.56

* 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 Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove, KS
Rebarchek #1-18
Job Ticket: 64391 **DST#: 3**
Test Start: 2018.01.19 @ 05:15:00

GENERAL INFORMATION:

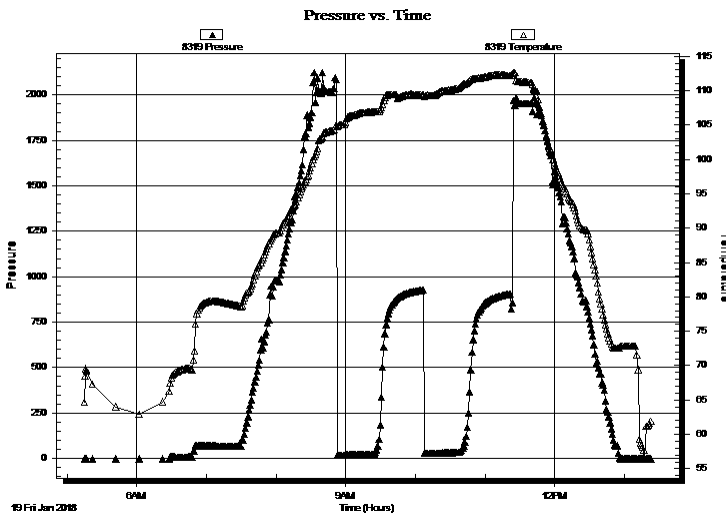
Formation: **LKC I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:52:15
Time Test Ended: 13:23:30
Interval: **4042.00 ft (KB) To 4070.00 ft (KB) (TVD)**
Total Depth: 4070.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2814.00 ft (KB)
2805.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4043.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.01.19 End Date: 2018.01.19 Last Calib.: 2018.01.19
Start Time: 05:15:05 End Time: 13:23:29 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 2" blow .
IS: No return.
FF: 1/4" blow .
FS: No retrun.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	vsocm 1o 99m	0.56

* Recovery from multiple tests

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 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove, KS
Rebarchek #1-18
Job Ticket: 64391 **DST#: 3**
Test Start: 2018.01.19 @ 05:15:00

Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4042.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			4016.00	
Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Jars	5.00			4031.00	
Safety Joint	2.00			4033.00	
Packer	5.00			4038.00	27.00 Bottom Of Top Packer
Packer	4.00			4042.00	
Stubb	1.00			4043.00	
Recorder	0.00	8522	Inside	4043.00	
Recorder	0.00	8319	Outside	4043.00	
Perforations	24.00			4067.00	
Bullnose	3.00			4070.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64391 **DST#: 3**
Test Start: 2018.01.19 @ 05:15:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

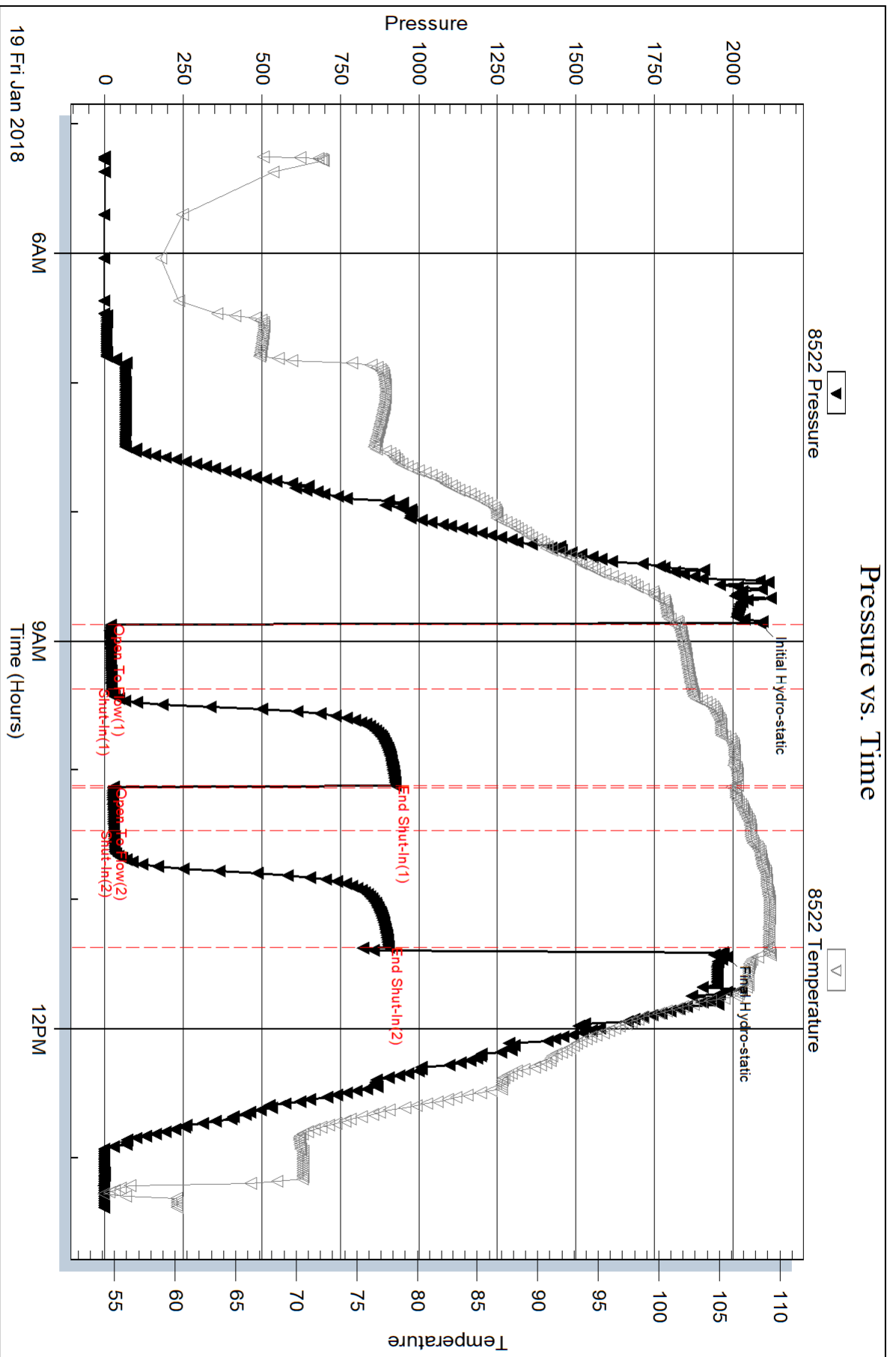
Length ft	Description	Volume bbl
40.00	vsocm 1o 99m	0.561

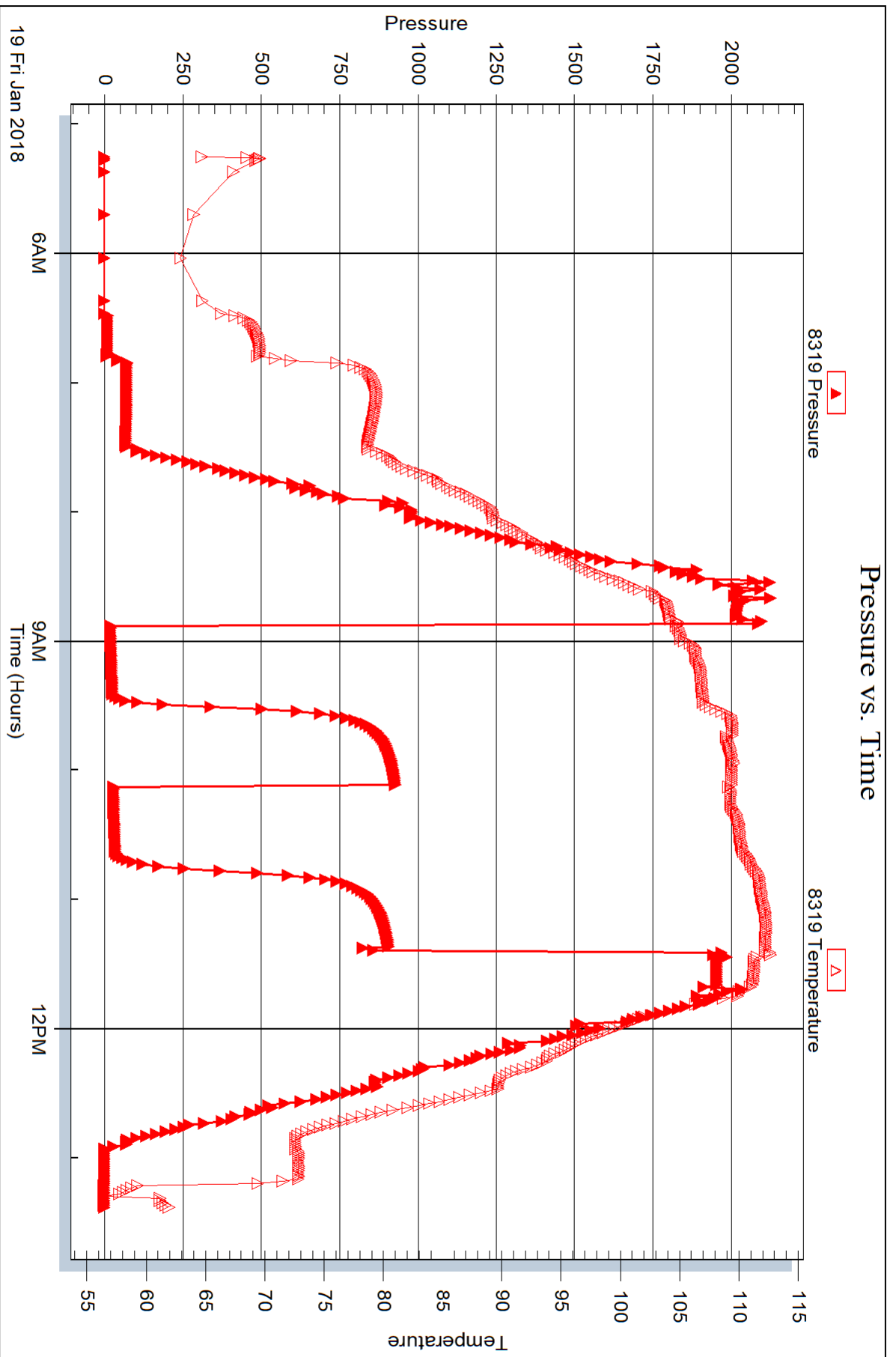
Total Length: 40.00 ft Total Volume: 0.561 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Leah Kasten

Rebarchek #1-18

18-14s-31w Gove,KS

Start Date: 2018.01.19 @ 21:26:00

End Date: 2018.01.20 @ 06:20:30

Job Ticket #: 64392 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.24 @ 14:12:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-14s-31w Gove, KS
Rebarchek #1-18
 Job Ticket: 64392 **DST#: 4**
 Test Start: 2018.01.19 @ 21:26:00

GENERAL INFORMATION:

Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:49:15
 Time Test Ended: 06:20:30
 Interval: **4067.00 ft (KB) To 4090.00 ft (KB) (TVD)**
 Total Depth: 4090.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2814.00 ft (KB)
 2805.00 ft (CF)
 KB to GR/CF: 9.00 ft

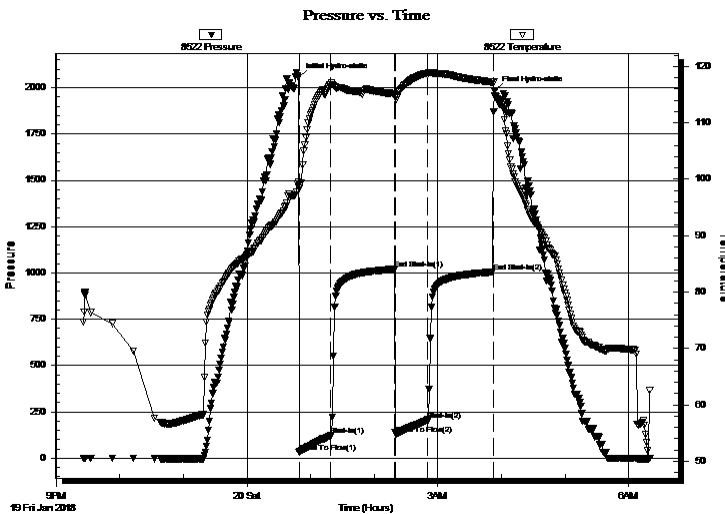
Serial #: 8522

Inside

Press@RunDepth: 203.86 psig @ 4068.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.01.19 End Date: 2018.01.20 Last Calib.: 2018.01.20
 Start Time: 21:26:05 End Time: 06:20:30 Time On Btm: 2018.01.20 @ 00:49:00
 Time Off Btm: 2018.01.20 @ 03:53:45

TEST COMMENT: IF: BOB @ 8 min.
 IS: 5" return.
 FF: BOB @ 12 min.
 FS: 7" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.67	99.45	Initial Hydro-static
1	30.29	98.38	Open To Flow (1)
30	121.65	116.88	Shut-In(1)
91	1019.72	115.12	End Shut-In(1)
91	131.52	114.68	Open To Flow (2)
121	203.86	118.77	Shut-In(2)
183	1004.58	117.20	End Shut-In(2)
185	1984.63	114.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	mcw 5m95w w/ oil speks	3.65
90.00	somcw 5o 10m 85w	1.26
90.00	oil 100o	1.26
0.00	120' GIP	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 Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove, KS

Rebarchek #1-18

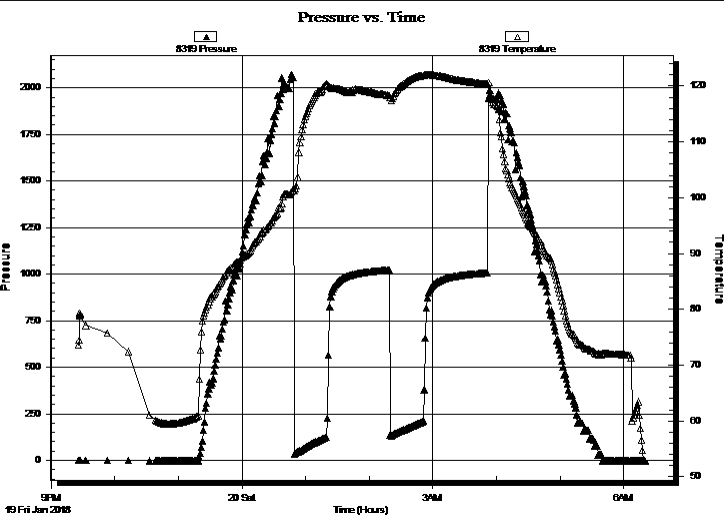
Job Ticket: 64392 **DST#: 4**
Test Start: 2018.01.19 @ 21:26:00

GENERAL INFORMATION:

Formation: LKC J		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Bradley Walter
Time Tool Opened: 00:49:15		Unit No: 78
Time Test Ended: 06:20:30		Reference Elevations: 2814.00 ft (KB)
Interval: 4067.00 ft (KB) To 4090.00 ft (KB) (TVD)		2805.00 ft (CF)
Total Depth: 4090.00 ft (KB) (TVD)		KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good	

Serial #: 8319	Outside				
Press@RunDepth: psig @	4068.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2018.01.19	End Date: 2018.01.20	Last Calib.:	2018.01.20		
Start Time: 21:26:05	End Time: 06:20:30	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: BOB @ 8 min.
IS: 5" return.
FF: BOB @ 12 min.
FS: 7" return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
260.00	mcw 5m95w w/ oil speks	3.65
90.00	somcw 5o 10m 85w	1.26
90.00	oil 100o	1.26
0.00	120' GIP	0.00

* Recovery from multiple tests

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 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64392 **DST#: 4**
Test Start: 2018.01.19 @ 21:26:00

Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4067.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.00 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			4041.00	
Shut In Tool	5.00			4046.00	
Hydraulic tool	5.00			4051.00	
Jars	5.00			4056.00	
Safety Joint	2.00			4058.00	
Packer	5.00			4063.00	27.00 Bottom Of Top Packer
Packer	4.00			4067.00	
Stubb	1.00			4068.00	
Recorder	0.00	8522	Inside	4068.00	
Recorder	0.00	8319	Outside	4068.00	
Perforations	19.00			4087.00	
Bullnose	3.00			4090.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64392 **DST#: 4**
Test Start: 2018.01.19 @ 21:26:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity: 57000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8700.00 ppm		
Filter Cake: 1.00 inches		

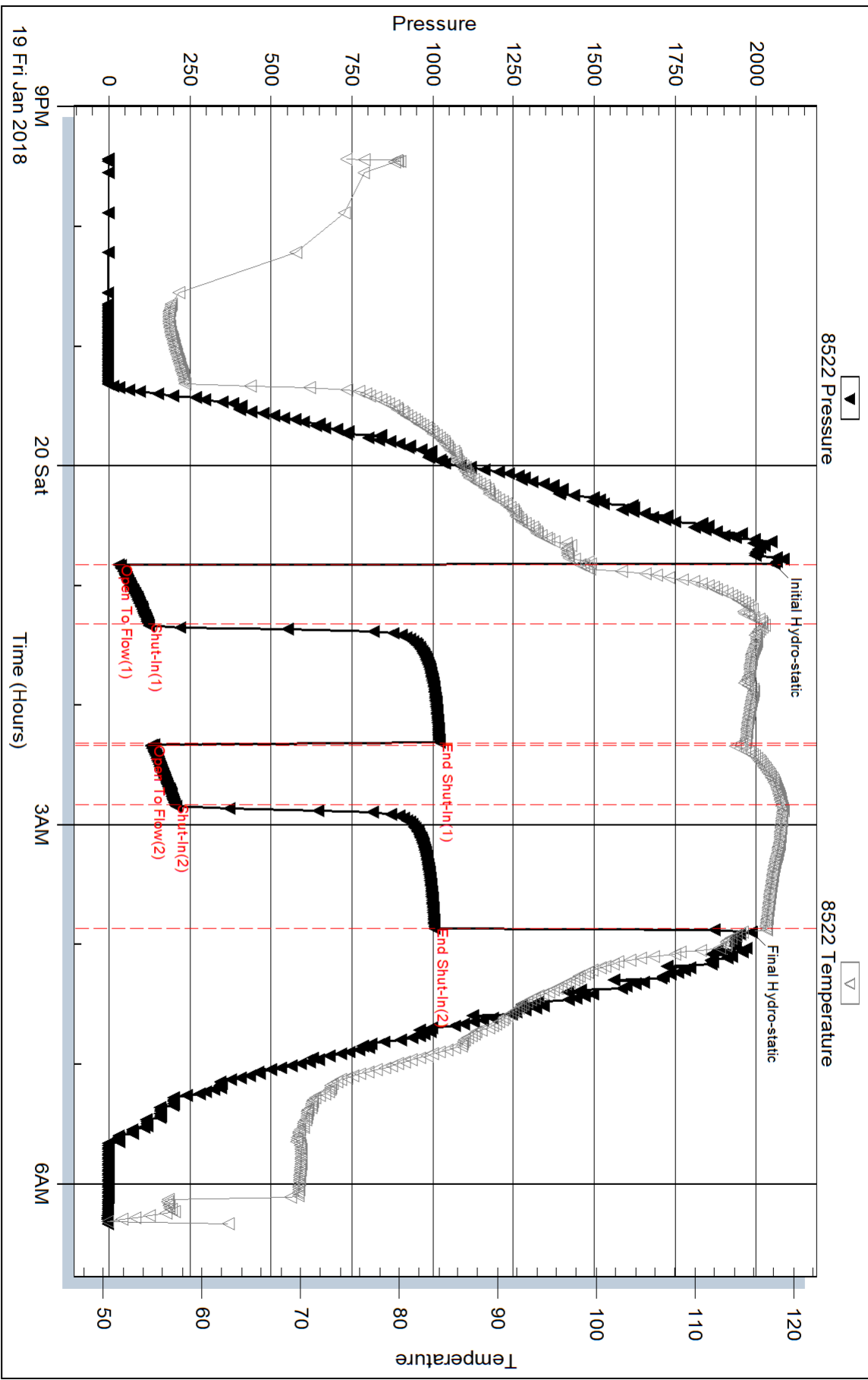
Recovery Information

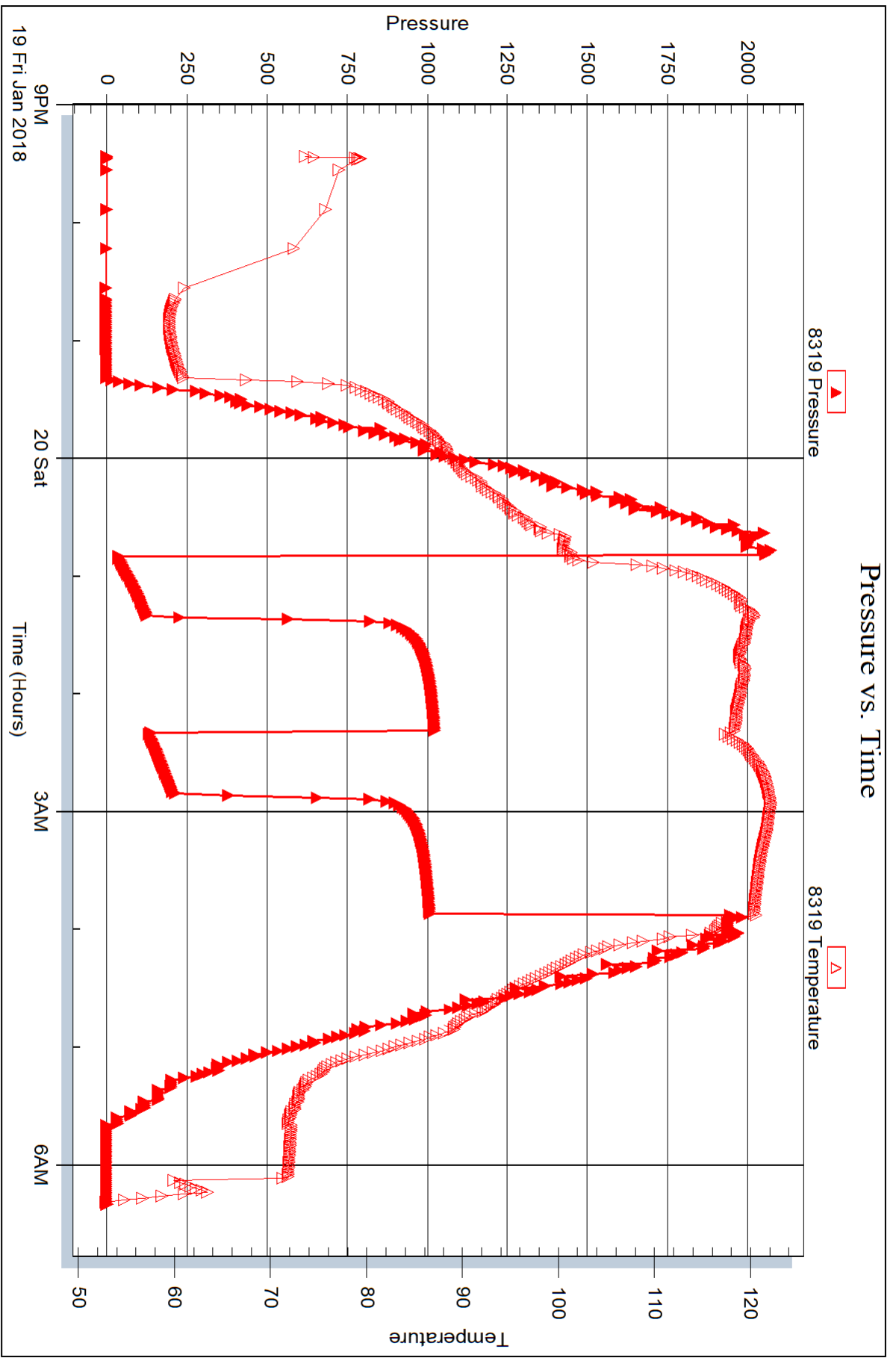
Recovery Table

Length ft	Description	Volume bbl
260.00	mcw 5m95w w/ oil speks	3.647
90.00	somcw 5o 10m 85w	1.262
90.00	oil 100o	1.262
0.00	120' GIP	0.000

Total Length: 440.00 ft Total Volume: 6.171 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .205 @ 46F = 57000ppm

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Leah Kasten

Rebarchek #1-18

18-14s-31w Gove,KS

Start Date: 2018.01.20 @ 20:21:00

End Date: 2018.01.21 @ 06:10:30

Job Ticket #: 64393 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.24 @ 14:11:44



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-14s-31w Gove, KS
Rebarchek #1-18
 Job Ticket: 64393 **DST#: 5**
 Test Start: 2018.01.20 @ 20:21:00

GENERAL INFORMATION:

Formation: **LKC- K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:47:30
 Time Test Ended: 06:10:30
 Interval: **4094.00 ft (KB) To 4170.00 ft (KB) (TVD)**
 Total Depth: 4170.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2814.00 ft (KB)
 2805.00 ft (CF)
 KB to GR/CF: 9.00 ft

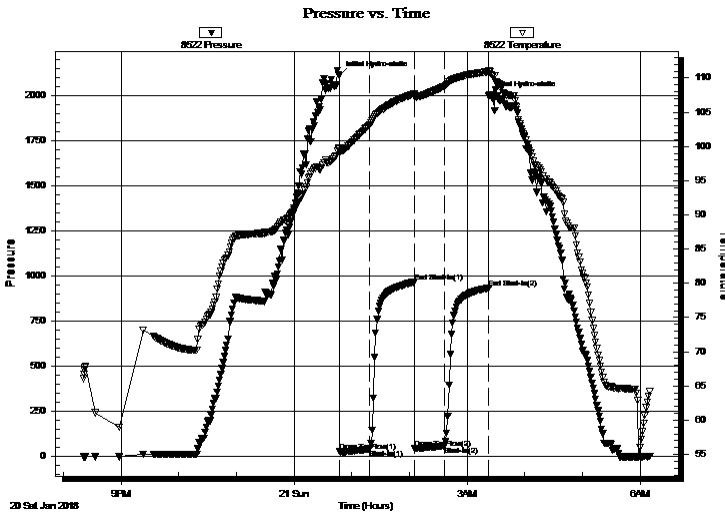
Serial #: 8522

Inside

Press@RunDepth: 57.49 psig @ 4095.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.01.20 End Date: 2018.01.21 Last Calib.: 2018.01.21
 Start Time: 20:21:05 End Time: 06:10:30 Time On Btm: 2018.01.21 @ 00:46:45
 Time Off Btm: 2018.01.21 @ 03:22:45

TEST COMMENT: IF: 4" blow .
 IS: No return.
 FF: 3" Blow .
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.50	99.75	Initial Hydro-static
1	27.27	99.30	Open To Flow (1)
32	39.04	103.13	Shut-In(1)
79	965.94	107.66	End Shut-In(1)
79	45.16	107.27	Open To Flow (2)
110	57.49	108.76	Shut-In(2)
156	933.36	110.91	End Shut-In(2)
156	2000.59	111.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	ocm 5o 95m	0.98
10.00	oil 100o	0.14

* Recovery from multiple tests

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 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove, KS
Rebarchek #1-18
Job Ticket: 64393 **DST#: 5**
Test Start: 2018.01.20 @ 20:21:00

Tool Information

Drill Pipe:	Length: 4088.00 ft	Diameter: 3.80 inches	Volume: 57.34 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4094.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	103.00 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			4068.00	
Shut In Tool	5.00			4073.00	
Hydraulic tool	5.00			4078.00	
Jars	5.00			4083.00	
Safety Joint	2.00			4085.00	
Packer	5.00			4090.00	27.00 Bottom Of Top Packer
Packer	4.00			4094.00	
Stubb	1.00			4095.00	
Recorder	0.00	8522	Inside	4095.00	
Recorder	0.00	8319	Outside	4095.00	
Perforations	7.00			4102.00	
Change Over Sub	1.00			4103.00	
Drill Pipe	63.00			4166.00	
Change Over Sub	1.00			4167.00	
Bullnose	3.00			4170.00	76.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64393 **DST#: 5**
Test Start: 2018.01.20 @ 20:21:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 10600.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	ocm 5o 95m	0.982
10.00	oil 100o	0.140

Total Length: 80.00 ft Total Volume: 1.122 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

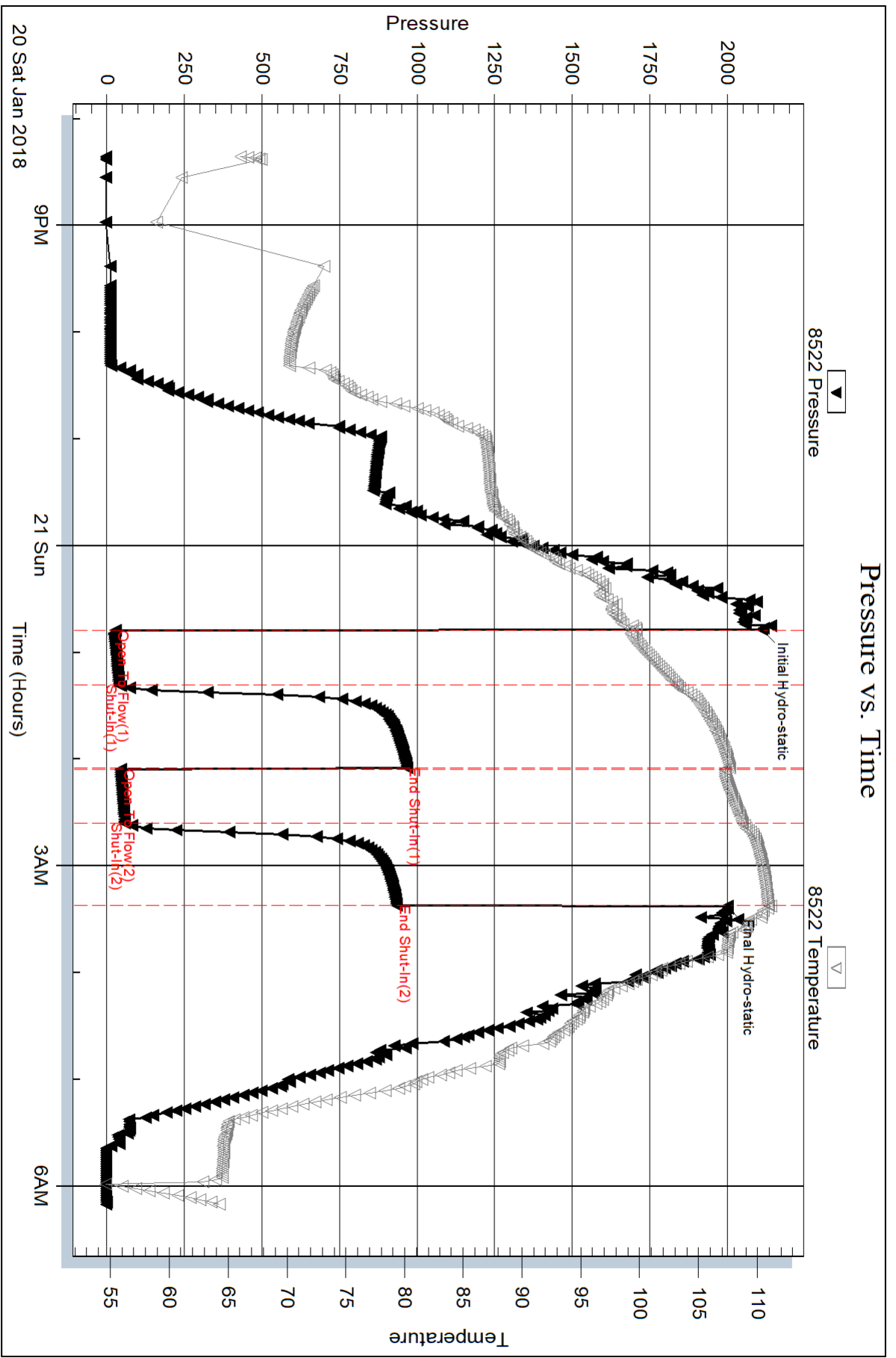
Serial #: 8522

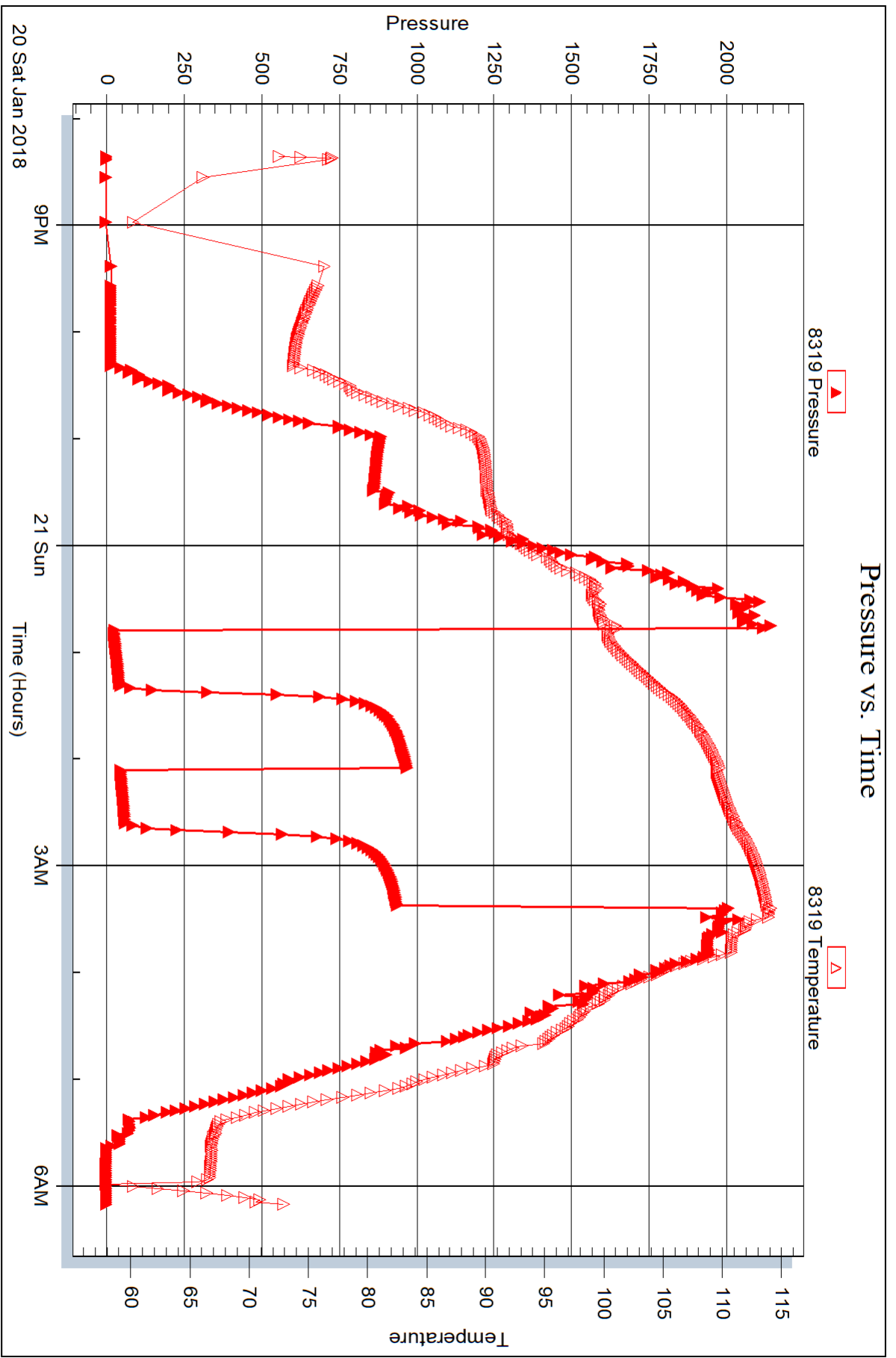
Inside

CMX, Inc.

Rebarchek #1-18

DST Test Number: 5







DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Leah Kasten

Rebarchek #1-18

18-14s-31w Gove,KS

Start Date: 2018.01.22 @ 14:32:00

End Date: 2018.01.22 @ 21:54:45

Job Ticket #: 64394 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.24 @ 14:08:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

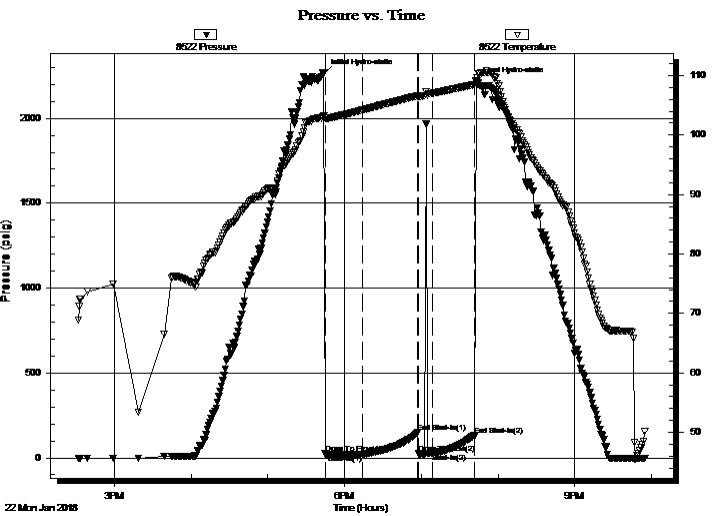
18-14s-31w Gove, KS
Rebarchek #1-18
 Job Ticket: 64394 **DST#: 6**
 Test Start: 2018.01.22 @ 14:32:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:44:45
 Time Test Ended: 21:54:45
 Interval: **4407.00 ft (KB) To 4451.00 ft (KB) (TVD)**
 Total Depth: 4451.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2814.00 ft (KB)
 2805.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8522 Inside
 Press@RunDepth: 26.39 psig @ 4408.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.01.22 End Date: 2018.01.22 Last Calib.: 2018.01.22
 Start Time: 14:32:05 End Time: 21:54:44 Time On Btm: 2018.01.22 @ 17:44:00
 Time Off Btm: 2018.01.22 @ 19:42:45

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: No blow, flushed tool.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.00	103.31	Initial Hydro-static
1	24.28	102.86	Open To Flow (1)
30	21.86	104.23	Shut-In(1)
74	149.22	106.62	End Shut-In(1)
74	24.17	106.48	Open To Flow (2)
85	26.39	107.04	Shut-In(2)
118	134.59	108.49	End Shut-In(2)
119	2215.18	109.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m w/oil spots	0.14

* Recovery from multiple tests

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 300B
Wichita, KS 67206
ATTN: Leah Kasten

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64394 **DST#: 6**
Test Start: 2018.01.22 @ 14:32:00

Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4407.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 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			4381.00	
Shut In Tool	5.00			4386.00	
Hydraulic tool	5.00			4391.00	
Jars	5.00			4396.00	
Safety Joint	2.00			4398.00	
Packer	5.00			4403.00	27.00 Bottom Of Top Packer
Packer	4.00			4407.00	
Stubb	1.00			4408.00	
Recorder	0.00	8522	Inside	4408.00	
Recorder	0.00	8319	Outside	4408.00	
Perforations	7.00			4415.00	
Change Over Sub	1.00			4416.00	
Drill Pipe	31.00			4447.00	
Change Over Sub	1.00			4448.00	
Bullnose	3.00			4451.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

18-14s-31w Gove,KS
Rebarchek #1-18
Job Ticket: 64394 **DST#: 6**
Test Start: 2018.01.22 @ 14:32:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

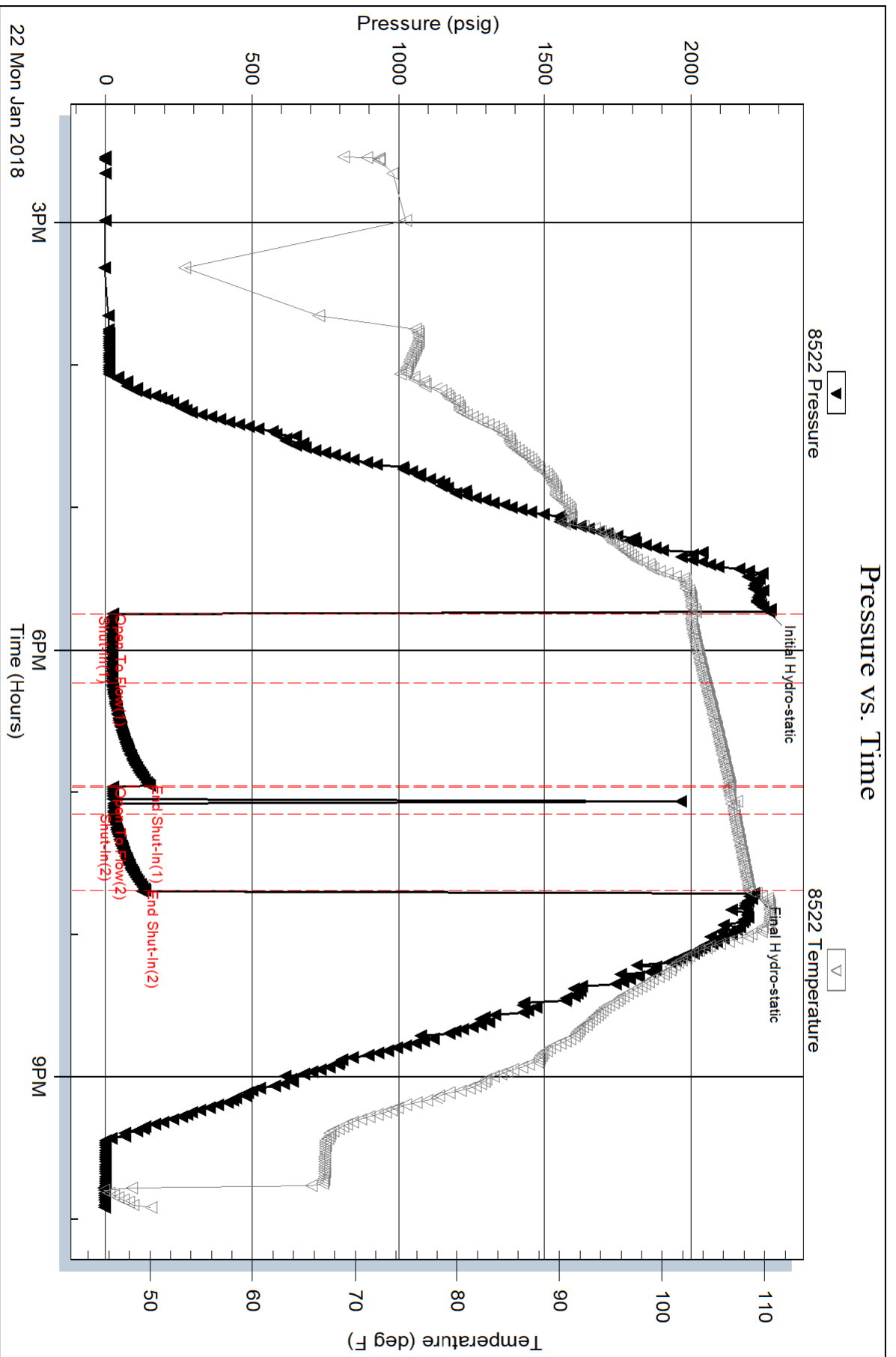
Length ft	Description	Volume bbl
10.00	mud 100m w/oil spots	0.140

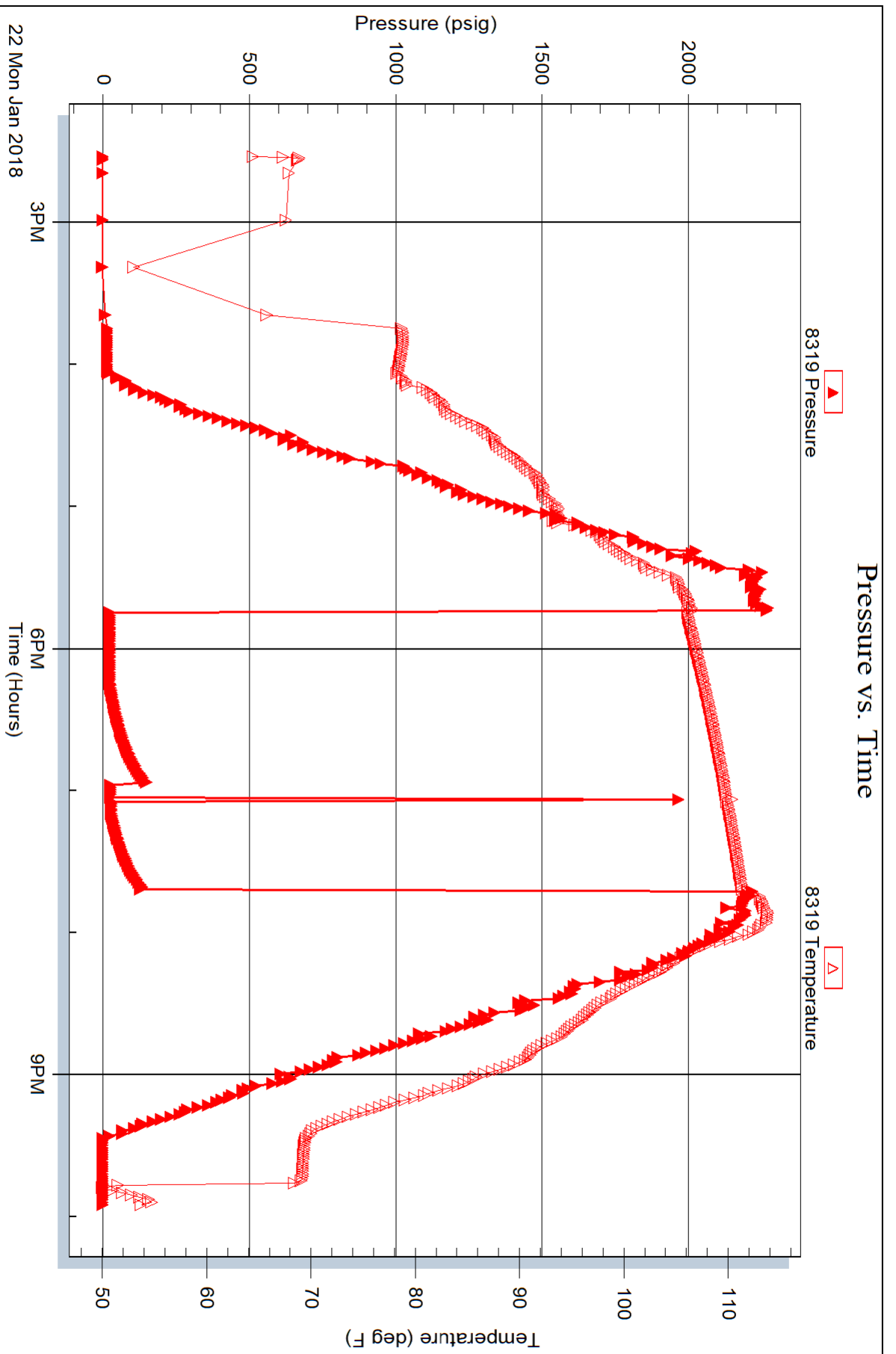
Total Length: 10.00 ft Total Volume: 0.140 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64389**


Well Name & No. Remarchek #1-18 Test No. 1 Date 1/17/2018
 Company CMX, Inc Elevation 2814 KB 2805 GL
 Address 1700 N Waterfront Pkwy Bldg 300 B Wichita, Ks 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #4
 Location: Sec. 18 Twp. 14s Rge. 31w Co. Bove State KS

Interval Tested 3873-3942 Zone Tested Lkc- B,C,D
 Anchor Length 69 Drill Pipe Run 3863 Mud Wt. 9.0
 Top Packer Depth 3868 Drill Collars Run Ø Vis 52
 Bottom Packer Depth 3873 Wt. Pipe Run Ø WL 8.0
 Total Depth 3942 Chlorides 4,000 ppm System LCM 2 #
 Blow Description IF: BOB @ 1 min.
ISI: 5th return
FF: BOB @ 30 sec.
FSI: Did not bleed off pressure

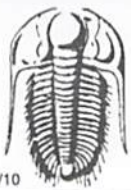
Rec	Feet of	%gas	%oil	%water	%mud
<u>560</u>	<u>mwcd</u>	<u>50</u>	<u>35</u>	<u>15</u>	
<u>630</u>	<u>Gmccw</u>	<u>15</u>	<u>30</u>	<u>55</u>	<u>10</u>
<u>320</u>	<u>GWCD</u>	<u>15</u>	<u>65</u>	<u>20</u>	
<u>360</u>	<u>S mCW</u> <u>oil spots</u>		<u>95</u>	<u>5</u>	
	<u>380' GTP</u>				

Rec Total 1870 BHT 117 Gravity — API RW 331 @ 40 °F Chlorides 38000 ppm

(A) Initial Hydrostatic <u>1974</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0630</u>
(B) First Initial Flow <u>310</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0950</u>
(C) First Final Flow <u>561</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1323</u>
(D) Initial Shut-In <u>10 09</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1553</u>
(E) Second Initial Flow <u>593</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2002</u>
(F) Second Final Flow <u>760</u>	<input checked="" type="checkbox"/> Mileage <u>64 RT</u> <u>48</u>	Comments
(G) Final Shut-In <u>9 79</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1 900</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1423</u>
	Sub Total <u>1423</u>	MP/DST Disc't

Approved By _____ Our Representative 

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. **64390**

Well Name & No. Rebarchek #1-18 Test No. 2 Date 1/18/2018
 Company CMX, Inc Elevation 2814 KB 2905 GL
 Address 1200 N Waterfront Pkwy Bldg 300 B Wichita, ks 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #4
 Location: Sec. 18 Twp. 14s Rge. 21 w Co. Gore State KS

Interval Tested 4006 - 4042 Zone Tested LKC H
 Anchor Length 36' Drill Pipe Run 4002 Mud Wt. 9.0
 Top Packer Depth 4001 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 4006 Wt. Pipe Run 0 WL 8.0
 Total Depth 4042 Chlorides 5500 ppm System LCM 2#
 Blow Description IF: Blow built to 264"
ISI: Blow built to 300"
FF: Blow built to 184"
FST: Blow built to 210"

Rec	Feet of	%gas	%oil	%water	%mud
<u>1820</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>120</u>	<u>0cm</u>		<u>25</u>		<u>25</u>
	<u>1530</u>				<u>GIP</u>
Rec Total	<u>1940</u>	BHT	<u>121</u>	Gravity	<u>36</u> API RW @ <u>°F</u> Chlorides ppm

(A) Initial Hydrostatic 2043 Test 1150 T-On Location 0945
 (B) First Initial Flow 197 Jars 250 T-Started 1026
 (C) First Final Flow 486 Safety Joint 75 T-Open 1329
 (D) Initial Shut-In 1128 Circ Sub used 50 T-Pulled 1605
 (E) Second Initial Flow 507 Hourly Standby _____ T-Out 2036
 (F) Second Final Flow 739 Mileage 6424 48 Comments _____
 (G) Final Shut-In 1113 Sampler _____
 (H) Final Hydrostatic 4968 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1573
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1573

Approved By _____ Our Representative [Signature]

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. **64391**

Well Name & No. Rebarchet # 1-18 Test No. 3 Date 1/19/2018
 Company CMX, Inc Elevation 2814 KB 2805 GL
 Address 1700 Waterfront Pkwy Bldg 300B Wichita, KS 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #4
 Location: Sec. 18 Twp. 14 Rge. 31w Co. Gove State KS

Interval Tested 4042-4070 Zone Tested LKC - I
 Anchor Length 28 Drill Pipe Run 4030 Mud Wt. 9.0
 Top Packer Depth 4037 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4042 Wt. Pipe Run 0 WL 12
 Total Depth 4070 Chlorides 8200 ppm System LCM 0
 Blow Description IF 2" blow
ISI No return.
FF 1/4" blow
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>50CM</u>	<u>1</u>		<u>99</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 40 BHT 109 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2086</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0445</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0515</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0854</u>
(D) Initial Shut-In <u>925</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1124</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1324</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>64RT</u> <u>48</u>	Comments _____
(G) Final Shut-In <u>903</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1971</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>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1523</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1523</u>	

Approved By _____ Our Representative [Signature]
 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. **64392**

Well Name & No. Rebarchek #1-18 Test No. 4 Date 1/20/2018
 Company CMX, Inc Elevation 2814 KB 2805 GL
 Address 1700 Waterfront Pkwy Bldg 300 B Wichita, Ks 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #4
 Location: Sec. 18 Twp. 14s Rge. 31w Co. Gove State Ks

Interval Tested 4067 - 4090 Zone Tested LKC J
 Anchor Length 23' Drill Pipe Run 4060 Mud Wt. 8.4
 Top Packer Depth 4062 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 4067 Wt. Pipe Run 0 WL 9.0
 Total Depth 4090 Chlorides 5700 ppm System LCM -

Blow Description IF: BOB @ 8 min.
ISI: 5" return.
FF: BOB @ 12 min
FSI: 7" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>OTL</u>	<u>100</u>			
<u>90</u>	<u>0 mcw</u>	<u>5</u>	<u>85</u>	<u>10</u>	
<u>260</u>	<u>mcw w/oil speks</u>		<u>95</u>	<u>5</u>	
	<u>120' GIP</u>				

Rec Total 440 BHT 117 Gravity 35 API RW 205 @ 46 °F Chlorides 57,000 ppm

(A) Initial Hydrostatic <u>2056</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2030</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2126</u>
(C) First Final Flow <u>122</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0048</u>
(D) Initial Shut-In <u>1020</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0348</u>
(E) Second Initial Flow <u>132</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0621</u>
(F) Second Final Flow <u>204</u>	<input checked="" type="checkbox"/> Mileage <u>64kt</u> <u>48</u>	Comments
(G) Final Shut-In <u>1005</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1985</u>	<input type="checkbox"/> Straddle	

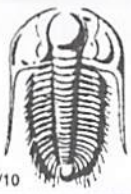
Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1523
 MP/DST Disc't

Sub Total 1523

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64393**

Well Name & No. Rebarchek #1-18 Test No. 5 Date 1/21/2018
 Company CMX, Inc Elevation 2814 KB 2805 GL
 Address 1700 Waterfront Pkwy Bldg 300 B Wichita, Ks 67206
 Co. Rep / Geo. Leah Kasten Rig Duke 4
 Location: Sec. 18 Twp. 14S Rge. 31W Co. Gove State KS

Interval Tested 4094-4170 Zone Tested LKC K-L
 Anchor Length 76' Drill Pipe Run 4088 Mud Wt. 89
 Top Packer Depth 4089 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4094 Wt. Pipe Run 0 WL 10.2
 Total Depth 4170 Chlorides 10,600 ppm System LCM 1#
 Blow Description IF 4" blow
ISI No return
FF 3" blow
FSI No return.

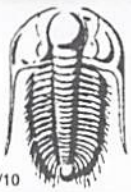
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>oil</u>		<u>100</u>		
<u>70</u>	<u>OCM</u>		<u>10</u>		<u>90</u>

Rec Total 80 BHT 111 Gravity 33 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2111</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1900</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2021</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0048</u>
(D) Initial Shut-In <u>966</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0320</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0611</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>64RT</u> <u>48</u>	Comments
(G) Final Shut-In <u>933</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2001</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>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1523</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1523</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64394**

Well Name & No. Rebarchek # 1-18 Test No. 6 Date 1/22/2018
 Company CMX, Inc Elevation 2814 KB 2805 GL
 Address 1700 Waterfront Pkwy Bldg 300 B Wichita, Ks 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #4
 Location: Sec. 18 Twp. 14s Rge. 31w Co. Gove State Ks

Interval Tested 4407-4451 Zone Tested Johnson
 Anchor Length 44 Drill Pipe Run 4405 Mud Wt. 9.3
 Top Packer Depth 4402 Drill Collars Run Ø Vis 50
 Bottom Packer Depth 4407 Wt. Pipe Run Ø WL 8.4
 Total Depth 4451 Chlorides 8000 ppm System LCM 1/2
 Blow Description IF 1/2" blow
ISI No return
FF No blow Flushed tool.
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 10 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2265</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1415</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1432</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1744</u>
(D) Initial Shut-In <u>149</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1939</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2155</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>64RT x2</u> <u>96</u>	Comments <u>P/O Tool 2500 24th</u>
(G) Final Shut-In <u>135</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2215</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby	Total <u>1571</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1571</u>	

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Thanks