

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) (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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PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	02/09/2016
<b>INVOICE NUMBER</b>			
<b>92042897</b>			

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

J LEASE NAME Huss #1-22  
 O LOCATION  
 B COUNTY Rawlins  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40912412	27463-0		Net - 30 days	03/10/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 02/08/2016 to 02/08/2016</i>				
0040912412				
171813012A Cement-New Well Casing/Pi 02/08/2016 PTA Cement New Well				
60/40 POZ	255.00	EA	4.20	1,071.00 T
Celloflake	64.00	EA	1.30	82.88 T
Cement Gel	440.00	EA	0.09	38.50 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	56.00	56.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.58	157.50
Heavy Equipment Mileage	200.00	MI	2.63	525.00
"Proppant & Bulk Del. Chgs., per ton mil	1,100.00	EA	0.88	962.50
Depth Charge; 2001'-3000'	1.00	EA	630.00	630.00
Blending & Mixing Service Charge	255.00	BAG	0.49	124.95
"Service Supervisor, first 8 hrs on loc.	1.00	EA	61.25	61.25

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>3,709.58</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>98.37</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>3,807.95</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		



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

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

FIELD SERVICE TICKET  
1718 13012 A

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

DATE OF JOB <b>2-8-16</b> DISTRICT <b>Pratt</b>		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>HUSS</b> WELL NO. <b>172</b>								
ADDRESS		COUNTY <b>Rawlins</b> STATE <b>Ks</b>								
CITY STATE		SERVICE CREW <b>MATTI, M. GIAN, ERN</b>								
AUTHORIZED BY		JOB TYPE: <b>CRW plus to abandon</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<b>27463</b>	<b>1.5</b>						<b>2-5-16</b>			<b>8</b>
						ARRIVED AT JOB				<b>2:45</b>
						START OPERATION				<b>4:10</b>
<b>19719</b>	<b>1.5</b>					FINISH OPERATION				<b>7:00</b>
						RELEASED				<b>8:00</b>
						MILES FROM STATION TO WELL				<b>100</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 Dion Vasquez  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 P07	SK	255		3,060 00
CC 102	cellulose	lb	64		236 80
CC 200	component 9-1	lb	446		110 00
CF 153	wooden mt plus 4 1/2	ea	1		160 00
E 100	P.u. misc.	hr	100		450 00
E 101	heavy eq misc.	hr	200		1,500 00
E 113	fuel + bulk del	hr	1100		2,750 00
CP 203	Drill charge 200lb - 3.000	4lb	1		1,800 00
CP 240	blend + misc	SK	255		35.7 00
S 003	Supervisor	ea	1		175 00
SUB TOTAL					<b>10,598 80</b>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<b>16 3,709 58</b>

SERVICE REPRESENTATIVE <b>Mike Matti</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X Dion Vasquez</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer <b>CMX inc</b>	Lease No.	Date <b>2-8-16</b>
Lease <b>HUSS</b>	Well # <b>1-22</b>	
Field Order # <b>15012</b>	Station <b>PRATT</b>	Casing <b>-</b>
	Depth <b>2850</b>	County <b>RAWLINS CO</b>
Type Job <b>CROW plug to abandon</b>	Formation	State <b>KS</b>
		Legal Description <b>22-1-33</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid <b>255 SKS 60/40 POZ</b>	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad <b>490 gal</b>	Max <b>1/4 # CR</b>	<b>Per SKS</b>	<b>5 Min.</b>	
Volume	Volume	From	To	Pad	Min		<b>10 Min.</b>	
Max Press <b>300</b>	Max Press	From	To	Frac	Avg		<b>15 Min.</b>	
Well Connection <b>D</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>2850</b>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager	Treater
Service Units <b>37586</b>	<b>27463</b>	<b>19826 19919</b>
Driver Names <b>Mattal</b>	<b>Mcgraw</b>	<b>Ernst</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:45					ON LOCATION / SAFETY MEETING
					1ST Plug @ 2850'
4:00		300	15	5	Pump 15 bbl water
4:14		200	13	5	Mix 50 SKS CNT @ 13-78"
4:17		100	5	5	Pump 5 bbl water
4:19		100	25	5	Pump 25 bbl mud
					2ND Plug @ 2090'
4:51		300	15	5	Pump 15 bbl water
4:59		250	26	5	Mix 100 SKS CNT
5:04		100	5	5	Pump 5 bbl water
5:06		100	12	5	Pump 12 bbl mud
					3RD Plug @ 315'
6:04		200	5	5	Pump 5 bbls water
6:06		150	13	5	Mix 50 SKS CNT
6:09		100	2	5	Pump 2 bbl water
					4TH Plug @ 40' w. wooden plug
6:43					Mix 10 SKS CNT
6:44			3		CNT TO SURFACE
6:50			7,5		Plug RAT + mouse hole
					JOB COMPLETE
					Thank You!
					Mike Mattal, Mik + Sam



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	02/01/2016
<b>INVOICE NUMBER</b>			
<b>92037178</b>			

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

J LEASE NAME Huss #1-22  
 O LOCATION  
 B COUNTY Rawlins  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40910395	86779-0			Net - 30 days	03/02/2016
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 01/29/2016 to 01/29/2016</b>					
0040910395					
171812594A Cement-New Well Casing/Pi 01/29/2016					
8 5/8 Surface Cement New Well					
60/40 POZ 200.00 EA 4.20 840.00 T					
Celloflake 50.00 EA 1.30 64.75 T					
Calcium Chloride 516.00 EA 0.37 189.63 T					
"Wooden Cmt Plug, 8 5/8"" 1.00 EA 56.00 56.00					
"Unit Mileage Chg (PU, cars one way)" 100.00 MI 1.58 157.50					
Heavy Equipment Mileage 200.00 MI 2.63 525.00					
"Proppant & Bulk Del. Chgs., per ton mil 860.00 EA 0.88 752.50					
Depth Charge; 0-500' 1.00 EA 350.00 350.00					
Blending & Mixing Service Charge 200.00 BAG 0.49 98.00					
Plug Container Util. Chg. 1.00 EA 87.50 87.50					
"Service Supervisor, first 8 hrs on loc. 1.00 EA 61.25 61.25					

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>3,182.13</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>90.29</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>3,272.42</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		



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

10244 NE Hwy. 61  
 P.O. Box 8613  
 Pratt, Kansas 67124  
 Phone 602-672-1201

FIELD SERVICE TICKET  
 1718 12594 A

22-1-33

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

DATE OF JOB <b>1/29/2016</b>	DISTRICT <b>Pratt, KS</b>	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>HUSS</b>	WELL NO. <b>1-22</b>							
ADDRESS		COUNTY <b>Rogers</b>	STATE <b>KS</b>						
CITY	STATE	SERVICE CREW <b>Drew, Scott, M McGrew</b>							
AUTHORIZED BY		JOB TYPE <b>CNW / 8 5/8 surface</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<b>86775</b>	<b>1/2</b>						<b>1/29</b>	<b>AM</b>	<b>8:00</b>
<b>19860</b>	<b>1/2</b>						<b>1/29</b>	<b>AM</b>	<b>3:30</b>
							<b>1/29</b>	<b>AM</b>	<b>7:45</b>
							<b>1/29</b>	<b>AM</b>	<b>8:15</b>
							<b>1/29</b>	<b>AM</b>	<b>9:00</b>
						MILES FROM STATION TO WELL	<b>265</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: *Drew Vasquez*  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<b>CP103</b>	<b>60/40 POZ</b>	<b>SK</b>	<b>200 -</b>		<b>2,400 00</b>
<b>CC102</b>	<b>Cellofisks</b>	<b>Lb</b>	<b>50 -</b>		<b>185 00</b>
<b>CC109</b>	<b>Calcium Chloride</b>	<b>Lb</b>	<b>516</b>		<b>541 80</b>
<b>CF153</b>	<b>Wooden Cement Plug, 8 5/8</b>	<b>ES</b>	<b>1</b>		<b>160 00</b>
<b>E100</b>	<b>unit milesse Chsrse - Pickups, Sml 105 and CS, 5.5</b>	<b>m</b>	<b>100</b>		<b>450 00</b>
<b>E101</b>	<b>Hesoy Equipment Milesse</b>	<b>m</b>	<b>200</b>		<b>1,500 00</b>
<b>E113</b>	<b>Proppsnt and Bulk Delivery Chsrse, pr. ion</b>	<b>ml/m</b>	<b>860</b>		<b>2,150 00</b>
<b>CE200</b>	<b>Depdn Chsrse, 6 500'</b>	<b>4hr</b>	<b>1</b>		<b>1,000 00</b>
<b>CE240</b>	<b>Blending &amp; mixing Service Chsrse</b>	<b>SK</b>	<b>200</b>		<b>280 00</b>
<b>CE504</b>	<b>Plus container Ut. 125' on Chsrse</b>	<b>Job</b>	<b>1</b>		<b>250 00</b>
<b>S003</b>	<b>Service Supervisor, Airt. 8 hrs on loc.</b>	<b>ES</b>	<b>1</b>		<b>175 00</b>

SUB TOTAL **9,091 80**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discounted		TOTAL
		<b>3,182 13</b>
		<b>KC</b>

SERVICE REPRESENTATIVE <i>Drew Vasquez</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <i>Drew Vasquez</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	



Customer <b>CMX, Inc</b>	Lease No.	Date <b>1/29/2016</b>
Lease <b>HUSS</b>	Well # <b>1-22</b>	
Field Order # <b>12594</b>	Station <b>Pratt, KS</b>	Casing <b>8 5/8</b>
Type Job <b>CNW/8 5/8 Surface</b>	Depth <b>264</b>	County <b>Roswell, KS</b>
	Formation <b>TD-264</b>	Legal Description <b>22-1-33</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8</b>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <b>264</b>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <b>16 3/4</b>	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <b>274</b>	Packer Depth	From	To	Flush <b>Freshwater</b>	Gas Volume			Total Load

Customer Representative <b>Deon</b>	Station Manager <b>Kevin Gorder</b>	Treater <b>Darin Franklin</b>
Service Units <b>92911 78982 86779 19903 19860</b>		
Driver Names <b>Darin Scott Scott McGraw McGraw</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:30					on location / safety meeting
					264' 8 5/8
					200SK 60/40 POZ, 3 1/2 acc, 1/4 # Cell Circ
					14.8 pps, 1.21 ve.12, 5.18 wster
2:45	200		3	5	Pump 3 bbls wster
	200		43	5	mix 200SK cement
					Shut down
					Recess Plug
	200		15 1/2	5	Dispicer 15 1/2 bbls wster
8:15 pm	200				Shut in
					Cement dia Circuiste
					Job complete / Darin & crew
					Thank you!!!



## DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

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

ATTN: Marc Downing

### **Huss #1-22**

#### **22-1s-33w Rawlins,KS**

Start Date: 2016.02.05 @ 05:35:00

End Date: 2016.02.05 @ 15:17:30

Job Ticket #: 65303                      DST #: 1

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

Printed: 2016.02.08 @ 10:38:19

CMX, Inc. 22-1s-33w Rawlins,KS Huss #1-22 DST # 1 LKC "D" 2016.02.05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX, Inc.  
1700 N Waterfront Pkwy  
Bldg. 300 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65303

**DST#: 1**

Test Start: 2016.02.05 @ 05:35:00

## GENERAL INFORMATION:

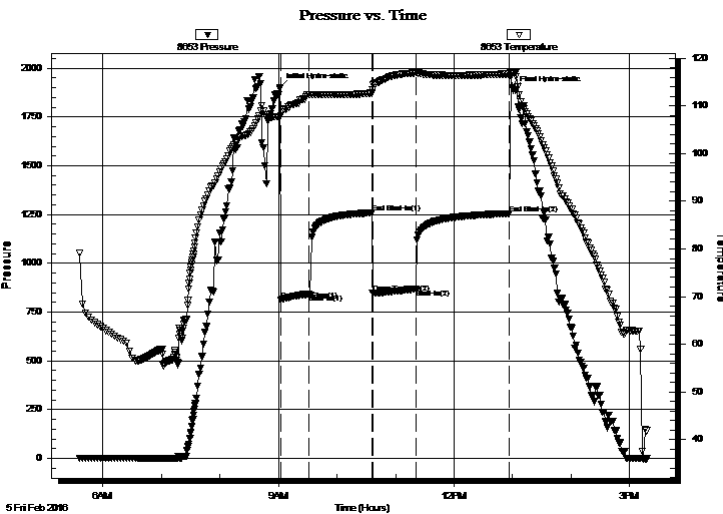
Formation: **LKC "D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:02:30  
 Time Test Ended: 15:17:30  
 Interval: **3971.00 ft (KB) To 4024.00 ft (KB) (TVD)**  
 Total Depth: 4024.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 82  
 Reference Elevations: 2998.00 ft (KB)  
 2990.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8653**

**Outside**

Press@RunDepth: 868.18 psig @ 3972.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.02.05 End Date: 2016.02.05 Last Calib.: 2016.02.05  
 Start Time: 05:36:00 End Time: 15:17:30 Time On Btm: 2016.02.05 @ 09:01:30  
 Time Off Btm: 2016.02.05 @ 13:00:30

**TEST COMMENT:** 30 - IF- Blow present w hile putting the head joint on - bled off - Surface Blow built to 7"  
 60 - IS- No Return  
 45 - FF- Surface Blow started at 2 mi. Built to 7 3/4"  
 90 - FS- No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.63	107.67	Initial Hydro-static
1	810.48	107.91	Open To Flow (1)
30	842.43	112.32	Shut-In(1)
94	1259.07	112.66	End Shut-In(1)
95	849.34	113.39	Open To Flow (2)
139	868.18	116.96	Shut-In(2)
235	1255.18	116.69	End Shut-In(2)
239	1887.48	116.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
441.00	OSM 100M (oil spots)	6.19
1260.00	Mud 100M	17.67

## 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 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**  
**Huss #1-22**  
Job Ticket: 65303      **DST#: 1**  
Test Start: 2016.02.05 @ 05:35:00

**Tool Information**

Drill Pipe:	Length: 3969.00 ft	Diameter: 3.80 inches	Volume: 55.67 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: 72000.00 lb
			<u>Total Volume: 55.67 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3971.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: tool opened w hile picking up dst's. Large mud recovery

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3944.00	
Shut In Tool	5.00			3949.00	
Hydraulic tool	5.00			3954.00	
Jars	5.00			3959.00	
Safety Joint	3.00			3962.00	
Packer	5.00			3967.00	28.00      Bottom Of Top Packer
Packer	4.00			3971.00	
Stubb	1.00			3972.00	
Recorder	0.00	8653	Outside	3972.00	
Recorder	0.00	8520	Inside	3972.00	
Perforations	14.00			3986.00	
Change Over Sub	1.00			3987.00	
Drill Pipe	31.00			4018.00	
Change Over Sub	1.00			4019.00	
Bullnose	5.00			4024.00	53.00      Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX, Inc.  
1700 N Waterfront Pkwy  
Bldg. 300 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**  
**Huss #1-22**  
Job Ticket: 65303      **DST#: 1**  
Test Start: 2016.02.05 @ 05:35:00

## Mud and Cushion Information

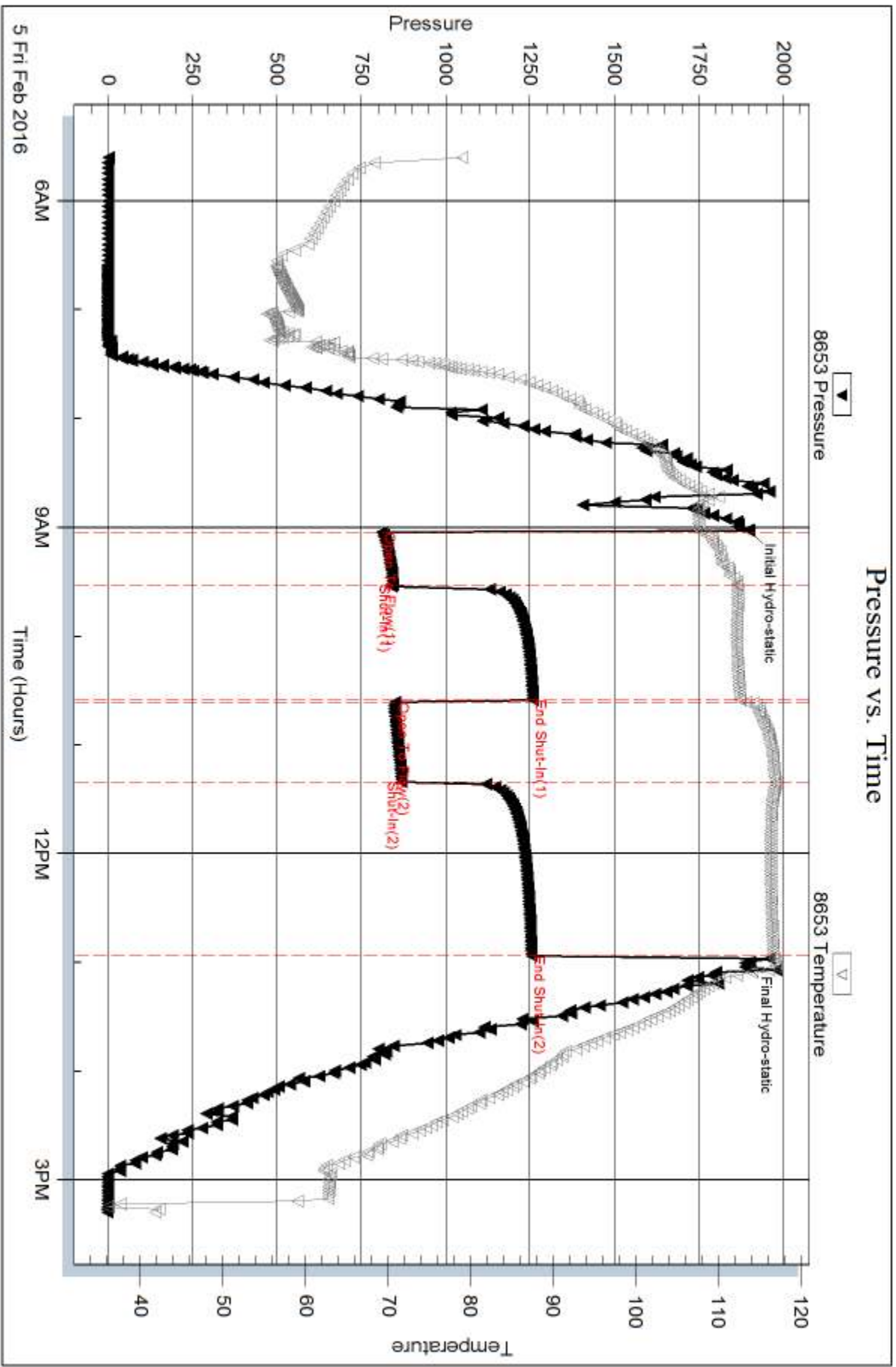
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
441.00	OSM 100M (oil spots)	6.186
1260.00	Mud 100M	17.674

Total Length: 1701.00 ft      Total Volume: 23.860 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



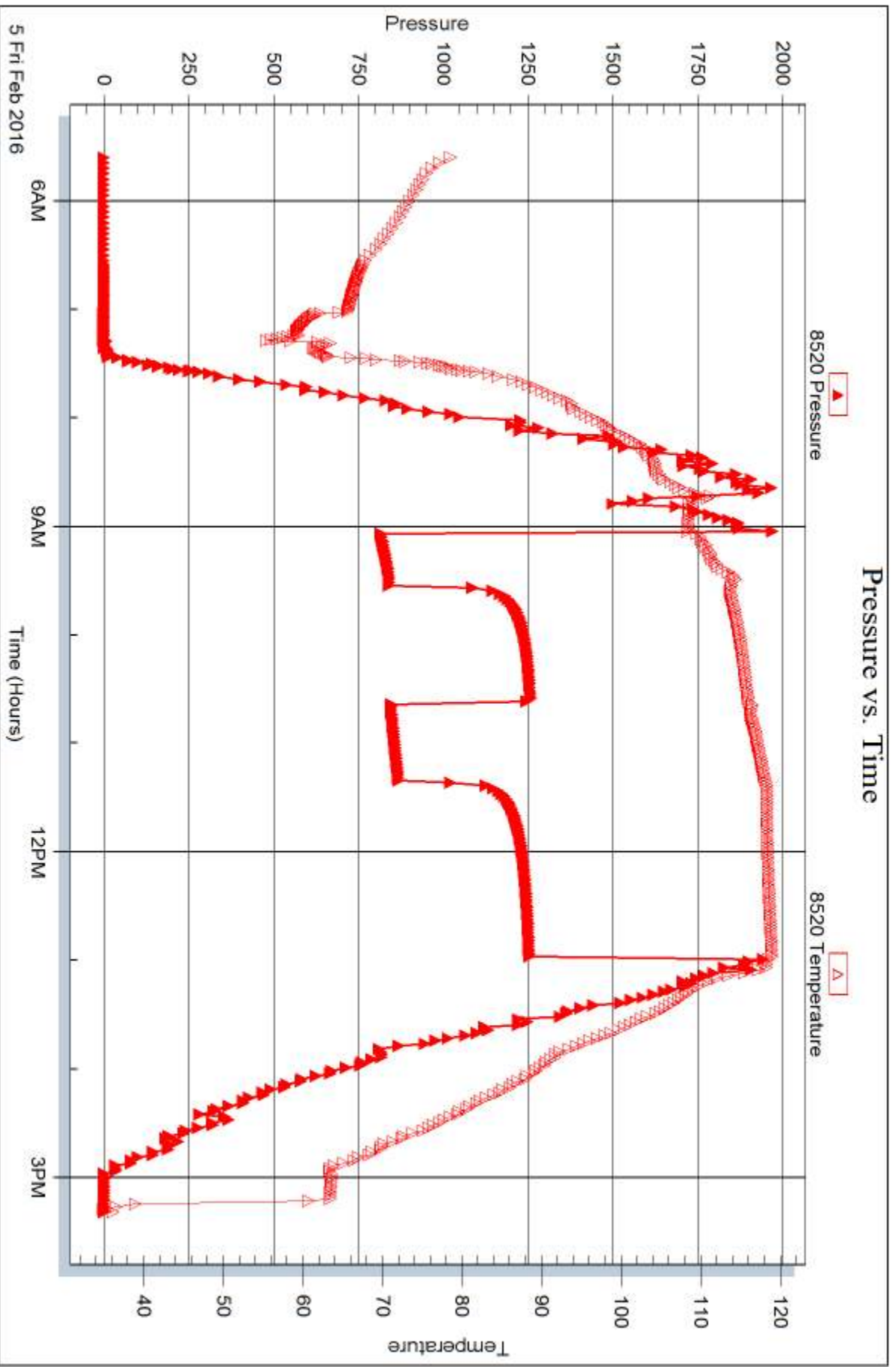
Serial #: 8520

Inside

CMX, Inc.

Huss #1-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65303

Printed: 2016.02.08 @ 10:38:20





## DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

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

ATTN: Marc Downing

### **Huss #1-22**

#### **22-1s-33w Rawlins,KS**

Start Date: 2016.02.06 @ 16:37:00

End Date: 2016.02.06 @ 23:42:30

Job Ticket #: 65304                      DST #: 2

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

Printed: 2016.02.08 @ 10:35:59

CMX, Inc. 22-1s-33w Rawlins,KS Huss #1-22 DST # 2 LKC "J" 2016.02.06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX, Inc.  
1700 N Waterfront Pkwy  
Bldg. 300 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65304

**DST#: 2**

Test Start: 2016.02.06 @ 16:37:00

## GENERAL INFORMATION:

Formation: **LKC "J"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 18:23:50  
 Tester: Kevin Mack  
 Time Test Ended: 23:42:30  
 Unit No: 82  
 Interval: **4117.00 ft (KB) To 4166.00 ft (KB) (TVD)**  
 Reference Elevations: 2998.00 ft (KB)  
 Total Depth: 4166.00 ft (KB) (TVD)  
 2990.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

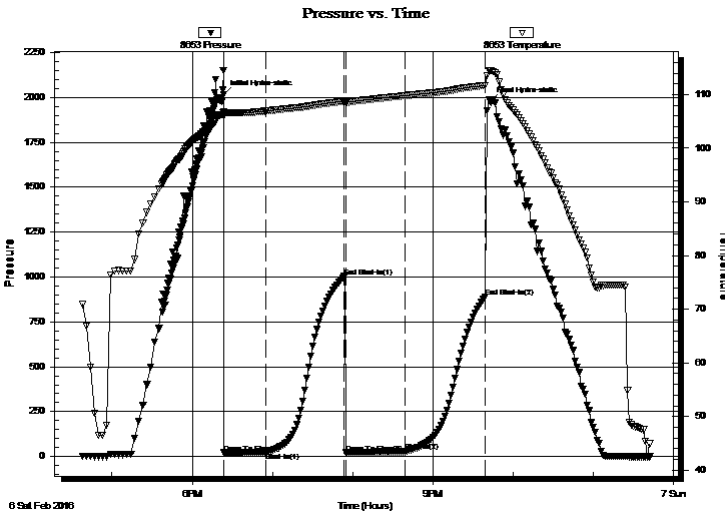
## Serial #: 8653

**Outside**

Press@RunDepth: 27.41 psig @ 4118.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.02.06 End Date: 2016.02.06 Last Calib.: 2016.02.06  
 Start Time: 16:38:00 End Time: 23:42:30 Time On Btm: 2016.02.06 @ 18:23:40  
 Time Off Btm: 2016.02.06 @ 21:43:00

**TEST COMMENT:** 30 - IF- 1/8" Blow built to 1 3/4", then led back to 1/4"  
 60 - IS- No Return  
 45 - FF- Weak Surface Blow started at 5 min. Did not build or die.  
 60 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.88	106.86	Initial Hydro-static
1	20.59	106.03	Open To Flow (1)
32	23.80	106.93	Shut-In(1)
90	1002.72	108.74	End Shut-In(1)
92	20.80	108.58	Open To Flow (2)
136	27.41	109.78	Shut-In(2)
196	889.52	111.70	End Shut-In(2)
200	1977.17	114.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 30o 70m	0.35
5.00	Clean Oil 100o	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 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65304

**DST#: 2**

Test Start: 2016.02.06 @ 16:37:00

## Tool Information

Drill Pipe:	Length: 4093.00 ft	Diameter: 3.80 inches	Volume: 57.41 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: 57.41 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4117.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	77.00 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			4090.00	
Shut In Tool	5.00			4095.00	
Hydraulic tool	5.00			4100.00	
Jars	5.00			4105.00	
Safety Joint	3.00			4108.00	
Packer	5.00			4113.00	28.00 Bottom Of Top Packer
Packer	4.00			4117.00	
Stubb	1.00			4118.00	
Recorder	0.00	8653	Outside	4118.00	
Recorder	0.00	8520	Inside	4118.00	
Perforations	12.00			4130.00	
Change Over Sub	1.00			4131.00	
Drill Pipe	31.00			4162.00	
Change Over Sub	1.00			4163.00	
Bullnose	3.00			4166.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX, Inc.  
1700 N Waterfront Pkwy  
Bldg. 300 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**  
**Huss #1-22**  
Job Ticket: 65304      **DST#: 2**  
Test Start: 2016.02.06 @ 16:37:00

## Mud and Cushion Information

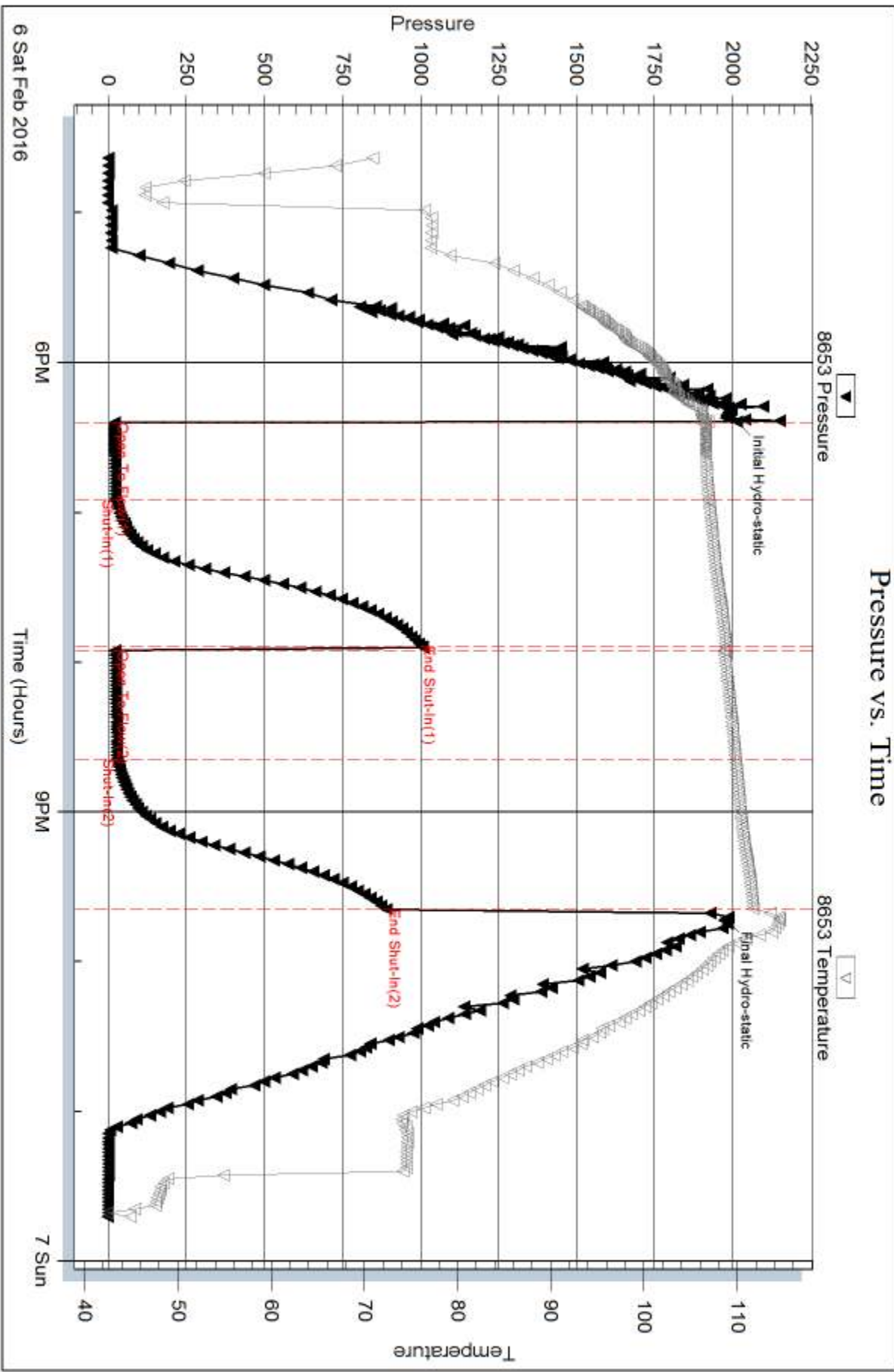
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 500.00 ppm		
Filter Cake: 1.00 inches		

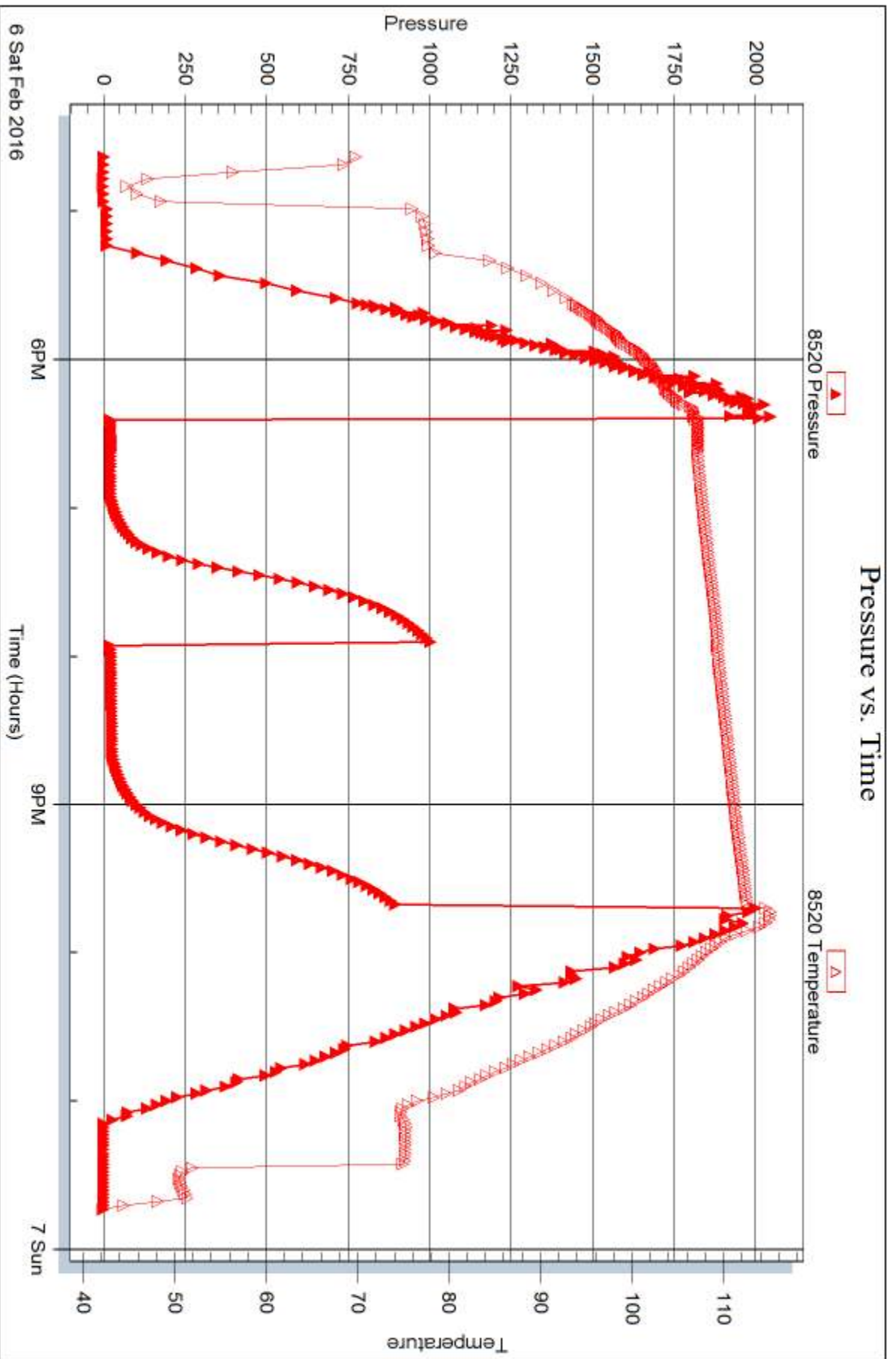
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 30o 70m	0.351
5.00	Clean Oil 100o	0.070

Total Length: 30.00 ft      Total Volume: 0.421 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Oil API 36 @ 90 deg = 33 corrected







## DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

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

ATTN: Marc Downing

### **Huss #1-22**

#### **22-1s-33w Rawlins,KS**

Start Date: 2016.02.07 @ 20:23:00

End Date: 2016.02.08 @ 07:32:30

Job Ticket #: 65305                      DST #: 3

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

Printed: 2016.02.08 @ 10:35:18

CMX, Inc. 22-1s-33w Rawlins,KS Huss #1-22 DST # 3 LKC "D" 2016.02.07





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

CMX, Inc.  
1700 N Waterfront Pkwy  
Bldg. 300 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65305

**DST#: 3**

Test Start: 2016.02.07 @ 20:23:00

## GENERAL INFORMATION:

Formation: **LKC "D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle (Initial)  
 Time Tool Opened: 23:05:00  
 Tester: Kevin Mack  
 Time Test Ended: 07:32:30  
 Unit No: 82  
 Interval: **3969.00 ft (KB) To 4060.00 ft (KB) (TVD)**  
 Reference Elevations: 2998.00 ft (KB)  
 Total Depth: 4285.00 ft (KB) (TVD)  
 2990.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

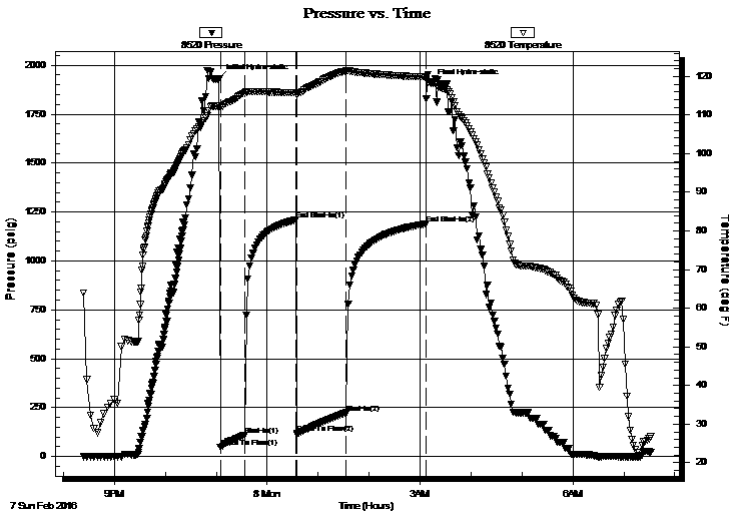
## Serial #: 8520

Inside

Press@RunDepth: 224.31 psig @ 3970.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.02.07 End Date: 2016.02.08 Last Calib.: 2016.02.08  
 Start Time: 20:24:00 End Time: 07:32:30 Time On Btm: 2016.02.07 @ 23:03:30  
 Time Off Btm: 2016.02.08 @ 03:13:00

TEST COMMENT: 30 - IF- BoB in 17 min.  
 60 - IS- No Return  
 60 - FF- BoB in 20 min.  
 90 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.67	112.36	Initial Hydro-static
2	46.48	111.92	Open To Flow (1)
31	110.78	115.69	Shut-In(1)
91	1208.71	115.82	End Shut-In(1)
92	118.02	115.18	Open To Flow (2)
150	224.31	121.38	Shut-In(2)
244	1189.53	119.84	End Shut-In(2)
250	1907.65	118.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	OCMW 10o 10M 80W	2.65
126.00	OCMW 20o 30M 50W	1.77
126.00	OCWM 10o 30W 60M	1.77
103.00	OCWM 10o 10W 80M	1.44
25.00	Free Oil 100o	0.35

## 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 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65305

**DST#: 3**

Test Start: 2016.02.07 @ 20:23:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:05:00

Time Test Ended: 07:32:30

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 82

**Interval: 3969.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Total Depth: 4285.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2998.00 ft (KB)

2990.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8653 Outside**

Press@RunDepth: psig @ 3970.00 ft (KB)

Start Date: 2016.02.07 End Date: 2016.02.08

Start Time: 20:24:00 End Time: 07:30:00

Capacity: 8000.00 psig

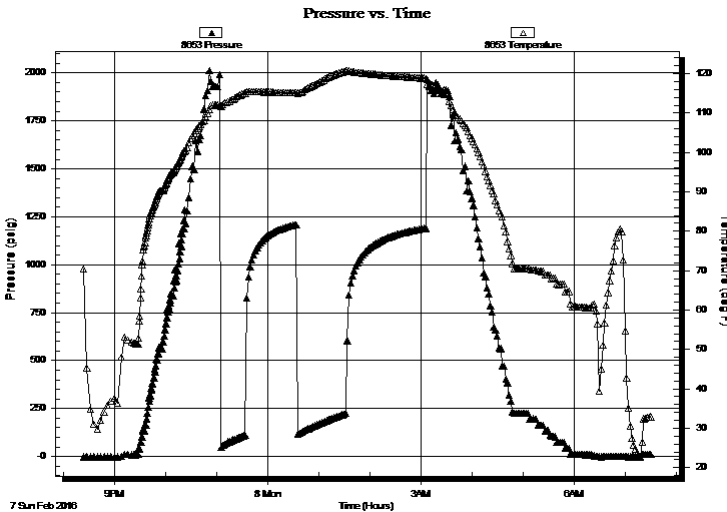
Last Calib.: 2016.02.08

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF- BoB in 17 min.  
60 - IS- No Return  
60 - FF- BoB in 20 min.  
90 - FS- No Return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	OCMW 10o 10M 80W	2.65
126.00	OCMW 20o 30M 50W	1.77
126.00	OCWM 10o 30W 60M	1.77
103.00	OCWM 10o 10W 80M	1.44
25.00	Free Oil 100o	0.35

## 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 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65305 **DST#: 3**

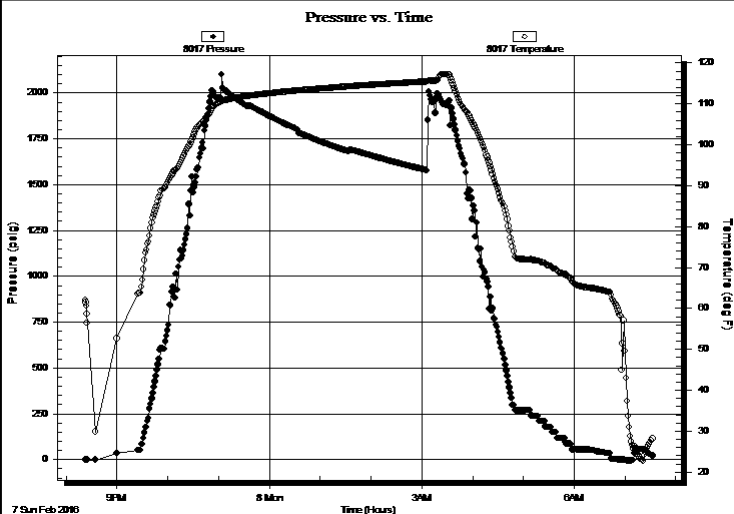
Test Start: 2016.02.07 @ 20:23:00

## GENERAL INFORMATION:

Formation: **LKC "D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:05:00  
Time Test Ended: 07:32:30  
Interval: **3969.00 ft (KB) To 4060.00 ft (KB) (TVD)**  
Total Depth: 4285.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Straddle (Initial)  
Tester: Kevin Mack  
Unit No: 82  
Reference Elevations: 2998.00 ft (KB)  
2990.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8017 Below (Straddle)**  
Press@RunDepth: psig @ 4063.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.02.07 End Date: 2016.02.08 Last Calib.: 2016.02.08  
Start Time: 20:23:05 End Time: 07:32:30 Time On Btm:  
Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 17 min.  
60 - IS- No Return  
60 - FF- BoB in 20 min.  
90 - FS- No Return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	OCMW 10o 10M 80W	2.65
126.00	OCMW 20o 30M 50W	1.77
126.00	OCVM 10o 30W 60M	1.77
103.00	OCVM 10o 10W 80M	1.44
25.00	Free Oil 100o	0.35

## 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 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65305

**DST#: 3**

Test Start: 2016.02.07 @ 20:23:00

## Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 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: 74000.00 lb
			<u>Total Volume: 55.63 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3969.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	4056.00 ft			
Interval between Packers:	87.00 ft			
Tool Length:	344.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3942.00	
Shut In Tool	5.00			3947.00	
Hydraulic tool	5.00			3952.00	
Jars	5.00			3957.00	
Safety Joint	3.00			3960.00	
Packer	5.00			3965.00	28.00 Bottom Of Top Packer
Packer	4.00			3969.00	
Stubb	1.00			3970.00	
Recorder	0.00	8653	Outside	3970.00	
Recorder	0.00	8520	Inside	3970.00	
Perforations	15.00			3985.00	
Change Over Sub	1.00			3986.00	
Drill Pipe	63.00			4049.00	
Change Over Sub	1.00			4050.00	
Perforations	5.00			4055.00	
Blank Off Sub	1.00			4056.00	87.00 Tool Interval
Packer	4.00			4060.00	
Packer - Shale	0.00			4060.00	
Stubb	1.00			4061.00	
Perforations	1.00			4062.00	
Change Over Sub	1.00			4063.00	
Recorder	0.00	8017	Below	4063.00	
Drill Pipe	218.00			4281.00	
Change Over Sub	1.00			4282.00	
Bullnose	3.00			4285.00	229.00 Bottom Packers & Anchor

**Total Tool Length: 344.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX, Inc.  
1700 N Waterfront Pkwy  
Bldg. 300 STE B  
Wichita, KS 67206  
ATTN: Marc Downing

**22-1s-33w Rawlins,KS**

**Huss #1-22**

Job Ticket: 65305

**DST#: 3**

Test Start: 2016.02.07 @ 20:23:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 59.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 500.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 29 deg API  
Water Salinity: 80000 ppm

## Recovery Information

Recovery Table

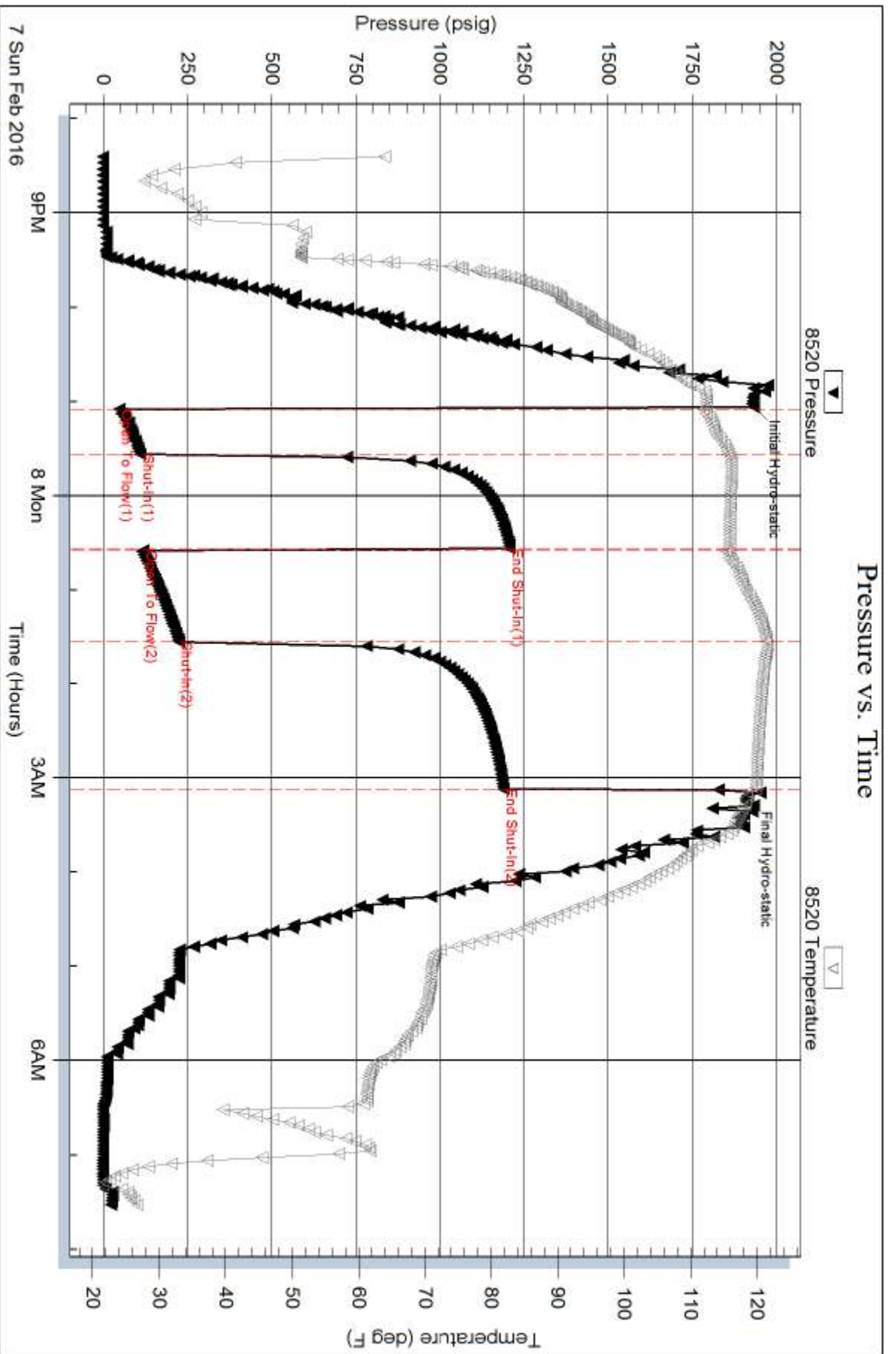
Length ft	Description	Volume bbl
189.00	OCMW 10o 10M 80W	2.651
126.00	OCMW 20o 30M 50W	1.767
126.00	OCWM 10o 30W 60M	1.767
103.00	OCWM 10o 10W 80M	1.445
25.00	Free Oil 100o	0.351

Total Length: 569.00 ft      Total Volume: 7.981 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Oil API = 30 @ 70 deg = 29 corrected  
RW = .21 @ 34 deg. = 80,000ppm

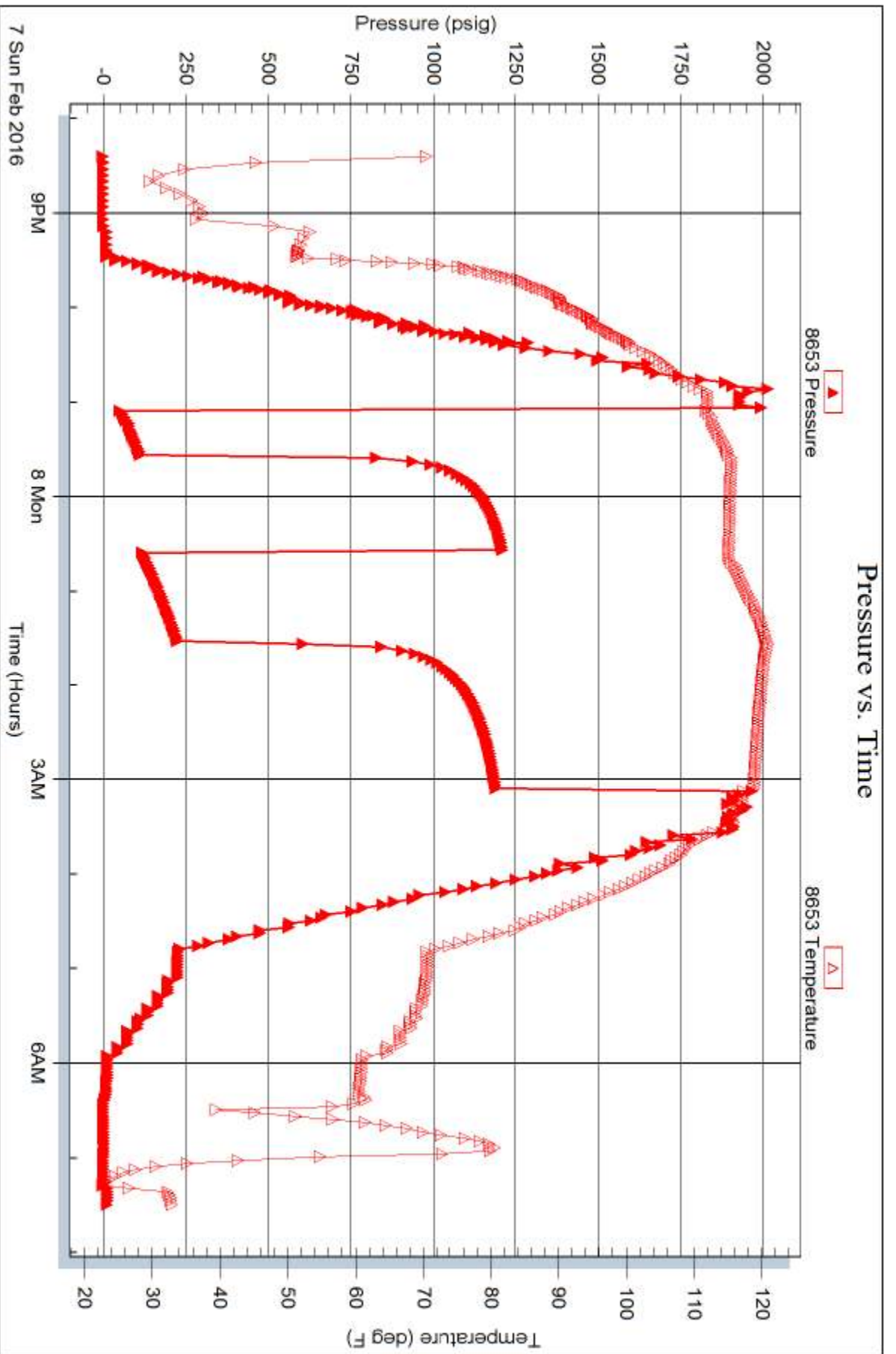


Serial #: 8653

Outside CMX, Inc.

Huss #1-22

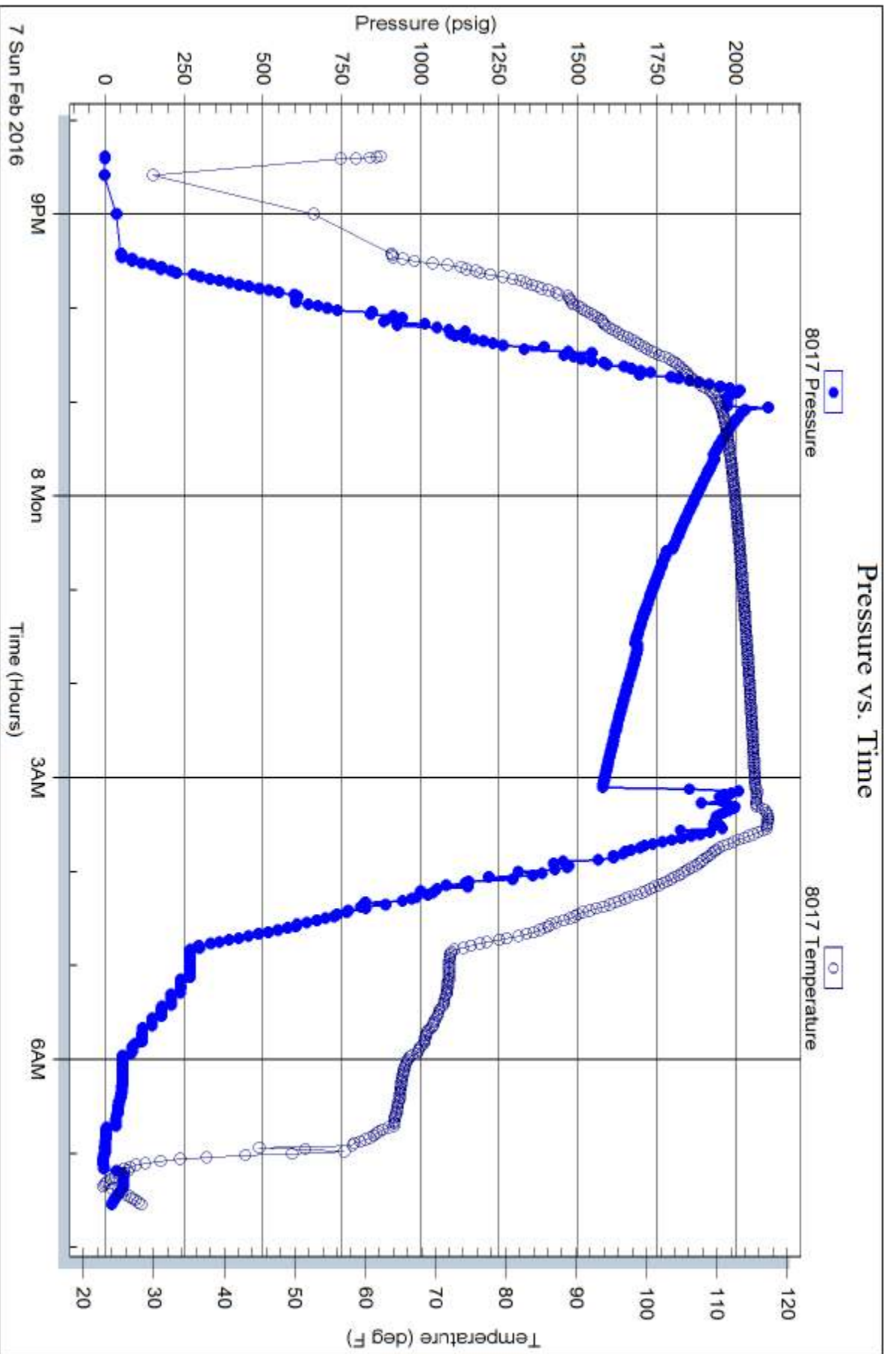
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65305

Printed: 2016.02.08 @ 10:35:20







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65303**

Well Name & No. Huss #1-22 Test No. 1 Date 2-5-16  
 Company C.Mx, Inc. Elevation 2948 KB 29485 GL  
 Address 1700 N Waterfront Pkwy. Bldg 3000 STE B Wichita, KS 67206  
 Co. Rep / Geo. Marc Downing Rig Duke #2  
 Location: Sec. 22 Twp. 15 Rge. 33W Co. Rawlins State KS

Interval Tested 3971-4024 Zone Tested LKC "D"  
 Anchor Length 53' Drill Pipe Run 3969' Mud Wt. 9  
 Top Packer Depth 3967 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 3971 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4024 Chlorides 500 ppm System LCM 2#

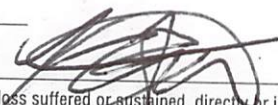
Blow Description IF - Surface Blow built to 7"  
PSI - NO Return  
FF - Surface Blow started at 2 min. Built to 7 3/4"  
PSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1268</u>	<u>Mud</u>			<u>100</u>	
<u>441</u>	<u>OSM</u>	<u>Spots</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 Total 1701 BHT 117 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1899  Test 1150 T-On Location ~~12:22 AM~~ 4:22 AM  
 (B) First Initial Flow 818  Jars 250 T-Started 5:35 AM  
 (C) First Final Flow 842  Safety Joint 75 T-Open 4:02 AM  
 (D) Initial Shut-In 1259  Circ Sub \_\_\_\_\_ T-Pulled 12:47 PM  
 (E) Second Initial Flow 849  Hourly Standby \_\_\_\_\_ T-Out 12:28 PM  
 (F) Second Final Flow 868  Mileage 85 RT 85 Comments \_\_\_\_\_  
 (G) Final Shut-In 1255  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1887  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 90  
 Sub Total 0  
 Total 1560  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1560

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. **65304**

Well Name & No. H555 #1-22 Test No. 2 Date 2-6-16  
 Company CMX, Inc. Elevation 2998 KB 2990 GL  
 Address 1700 N Waterfront Pkwy Bldg 3000 STE B Wichita, KS 67206  
 Co. Rep / Geo. Marc Downing Rig Duke #2  
 Location: Sec. 22 Twp. 1S Rge. 33W Co. Rawlins State KS

Interval Tested 4117 - 4166 Zone Tested LKC "J"  
 Anchor Length 49' Drill Pipe Run 4093' Mud Wt. 9.2  
 Top Packer Depth 4113 Drill Collars Run 0 Vis 47  
 Bottom Packer Depth 4117 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4166 Chlorides 500 ppm System LCM 1#  
 Blow Description IF - 1/8" Blow built test 1/4", then died back to 1/4"  
FSI - NO Return  
FF - Weak Surface Blow started at 5 min. did not build or die.  
PSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Clean oil</u>				
<u>25</u>	<u>Oil</u>		<u>30</u>		<u>70</u>

Rec Total 300' BHT - Gravity 33 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2084</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:00 PM</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:37 PM</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:24 PM</u>
(D) Initial Shut-In <u>1002</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:40 PM</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:44 PM</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>85 RT</u> <u>85</u>	Comments
(G) Final Shut-In <u>889</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1977</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>1560</u>
	Sub Total <u>1560</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65305**

Well Name & No. Huss #1-22 Test No. 3 Date 2-7-16  
 Company CMx, Inc. Elevation 2498 KB 2990 GL  
 Address 1700 N Waterfront Pkwy. Bldg #300 STE B Wichita, KS 67206  
 Co. Rep / Geo. Marc Downing Rig Duke #2  
 Location: Sec. 22 Twp. 1S Rge. 33W Co. Rawlins State KS

Interval Tested 3969 - 4060 Zone Tested LKC "D"  
 Anchor Length 91' Drill Pipe Run 3966' Mud Wt. 9.3  
 Top Packer Depth 3965 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 3964 - 4060 (straddle) Wt. Pipe Run 0 WL 7.2  
 Total Depth ~~4060~~ 4285 Chlorides 500 ppm System LCM 1#  
 Blow Description IF - Bob in 17 min.  
ISE - NO Return  
FF - Bob in 20 min.  
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Free Oil</u>	<u>100%</u>			
<u>103</u>	<u>OCWM</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>126</u>	<u>OCWM</u>	<u>10</u>	<u>30</u>	<u>60</u>	
<u>126</u>	<u>OCMW</u>	<u>20%</u>	<u>50</u>	<u>30</u>	
<u>189</u>	<u>OCMW</u>	<u>10</u>	<u>80</u>	<u>10</u>	

Rec Total 569' BHT 1208 Gravity 24 API RW -21 @ 34 °F Chlorides 80000 ppm

(A) Initial Hydrostatic 1932  Test 1150 T-On Location 8:00 PM  
 (B) First Initial Flow 46  Jars 250 T-Started 8:23 PM  
 (C) First Final Flow 110  Safety Joint 75 T-Open 11:05 PM  
 (D) Initial Shut-In 1208  Circ Sub \_\_\_\_\_ T-Pulled 3:05 AM  
 (E) Second Initial Flow 118  Hourly Standby \_\_\_\_\_ T-Out 7:33 AM  
 (F) Second Final Flow 224  Mileage 85 Comments Loaded tools at  
 (G) Final Shut-In 1189  Sampler \_\_\_\_\_ end of test  
 (H) Final Hydrostatic 1907  Straddle 85PT 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2160  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2160

Approved By \_\_\_\_\_ Our Representative [Signature]

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