

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

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

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

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	CMX, Inc.
Well Name	GERSTBERGER 1-28
Doc ID	1371824

All Electric Logs Run

Sonic
Micro Resistivity
Induction
Neutron Porosity





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	09/25/2017
<b>INVOICE NUMBER</b>			
<b>92527287</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 Gerstberger 1-28  
 O LOCATION  
 B COUNTY Logan  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41057784	19570		Net - 30 days	10/25/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/22/2017 to 09/22/2017</i>				
0041057784				
171814533L Cement-New Well Casing/Pi 09/22/2017 Cement PTA				
60/40 POZ	240.00	EA	6.24	1,497.60 T
Cement Gel	414.00	EA	0.13	53.82 T
Celloflake	60.00	EA	1.92	115.20 T
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.34	234.00
Heavy Equipment Mileage	200.00	MI	3.90	780.00
Proppant & Bulk Del. Chgs., per ton mil	1,035.00	EA	1.30	1,345.50
Blending & Mixing Service Charge	240.00	BAG	0.73	175.20
Cement Data Acquisition Monitor	1.00	EA	286.00	286.00
Depth Charge; 2001'-3000'	1.00	EA	936.00	936.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	91.00	91.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,514.32
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	133.33
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,647.65
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



1700 S. Country Estates Road  
 Liberal, KS 67001  
 PH (620)-624-2277 FAX (620) 624-2280

SERVICE ORDER - 1718-14533 L

Date: 9/22/2017

*TT MH = 30*

Well Name: **GERSTBERGER 1-28** Location: **28,14,36**  
 County - State: **LOGAN, KS** RRC #: **19570 - 3.25**  
 Type Of Service: **Z42 - PLUG TO ABANDON** Customer's Order #: **1000793**  
 Customer: **CMX**

Address: *1700 N. Waterfront PKy B Hw 30  
 Wichita KS 67206*

As a consideration, the above named Customer agrees to pay Basic Energy Services in accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customer's account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services, warrants only title in the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY/FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services' option, to the issuance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
CL103	240	Sk	80/40 POZ	12.00	2880.00
CC200	414	Lb	Cement Gel	0.25	103.50
CC102	60	Lb	Celloflake	3.70	222.00
E101	200	Mi	Heavy Equipment Mileage	7.50	1500.00
CE240	240	Sk	Blending & Mbdng Service Charge	1.40	336.00
E113	1035	Tr/Mi	Proppant and Bulk Delivery Charges, per ton mile	2.50	2587.50
CE203	1	4 Hrs	Depth Charge; 2001'-3000'	1800.00	1800.00
E100	100	Mi	Unit Mileage Charge-Pickups, Small Vans & Cars (one way)	4.50	450.00
S003	1	Ea	Service Supervisor, first 8 hrs on loc.	175.00	175.00
T105	1	Ea	Cement Data Acquisition Monitor / Strip Chart Recorder	550.00	550.00
				Book Total:	\$10,604.00
				Taxes:	
				Disc. Price:	\$5,814.32

PUMP TRUCK NUMBER: 38118-19570  
 DRIVER: *Willie*  
 BASIC ENERGY SERVICES

THIS JOB WAS SATISFACTORILY COMPLETED  YES  NO  
 OPERATION OF EQUIPMENT WAS SATISFACTORY  YES  NO  
 PERFORMANCE OF PERSONNEL WAS SATISFACTORY  YES  NO  
 CUSTOMER OR HIS AGENT *[Signature]*

Customer Comments or Concerns: *T-2*  
*[Signature]*



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING Job Log**

Customer:	CMX	Cement Pump No.:	38119-19570	Operator TRK No.:	78939
Address:		Ticket #:	1718-14533 L	Bulk TRK No.:	27808-19863
City, State, Zip:		Job Type:	Z42 - PLUG TO ABANDON		
Service District:		Well Type:	OIL		
Well Name and No.:	GERSTBERGER 1-28	Well Location:	28,14,36	County:	LOGAN
				State:	KS

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 POZ	240	4 %GEL	27808-19863	Front	Back
				Front	Back
				Front	Back

<b>Lead/Tail:</b>	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	13.5	1.51	7.5	362.4	Man Hours:	
<b>Tail:</b>					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
7:20							ON LOC, SAFTEY MTG, R.U.
8:22	2.5	10			160		H2O SPACER
8:30 AM	4	13.45			240		MIX 50SX @ 2550'
8:34 AM	4	3			40		H2O SPACER
8:38 AM	8.6						MUD
8:41							TOOH
9:21	4	10			140		H2O SPACER
9:25 AM	4	26.8			140		MIX 100SX @ 1360'
9:35	4	11			40		DISPLACE
9:38							TOOH
10:44	4	10			80		H2O SPACER
10:48	3.5	13.45			60		MIX 50 SX @360'
10:53	3.5	1.5					DISPLACE
10:59							TOOH
11:44	4						PLUG RH
11:48	4						TOP OF WELL
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	Depth			TYPE	
Size & Wl Csg.	Depth		New / Used	Packer	Depth
ibg.	Depth			Retainer	Depth
Top Plugs	Type			Perfs	CIBP

Customer Signature: *[Signature]* Basic Representative: CHAD HINZ  
 Basic Signature: *[Signature]*  
 Date of Service: 8/22/2017



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	09/19/2017
<b>INVOICE NUMBER</b>			
<b>92523232</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 Gerstberger 1-28  
 O LOCATION  
 B COUNTY Logan  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41056626	19570		Net - 30 days	10/19/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/14/2017 to 09/14/2017</i>				
0041056626				
171814530L Cement-New Well Casing/Pi 09/14/2017 Cement Casing Seat Surface				
60/40 POZ	220.00	EA	6.60	1,452.00 T
Calcium Chloride	570.00	EA	0.61	347.70 T
Celloflake	55.00	EA	2.04	112.20 T
"Wooden Cmt Plug, 8 5/8"'"	1.00	EA	160.00	160.00
"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	950.00	EA	1.38	1,311.00
Blending & Mixing Service Charge	220.00	BAG	0.77	169.40
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

*Bid 5340*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,410.05
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	152.95
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,563.00
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		







Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING Job Log**

Customer:	CMX	Cement Pump No.:	38119-19570	Operator TRK No.:	78939
Address:		Ticket #:	1718-14530 L	Bulk TRK No.:	14355-37724
City, State, Zip:		Job Type:	Z-42 CASING SEAT SURFACE		
Service District:		Well Type:			
Well Name and No.:	GERSTBERGER 1-28	Well Location:	28-14S-36W	County:	LOGAN
				State:	KS

Type of Cmt	Sacks	Additives	Truck Loaded On		
80/40 POZ	220	2%GEL, 3%CaCl, 1/4# POLYFLAKE	14355-37724	Front	Back
				Front	Back
				Front	Back

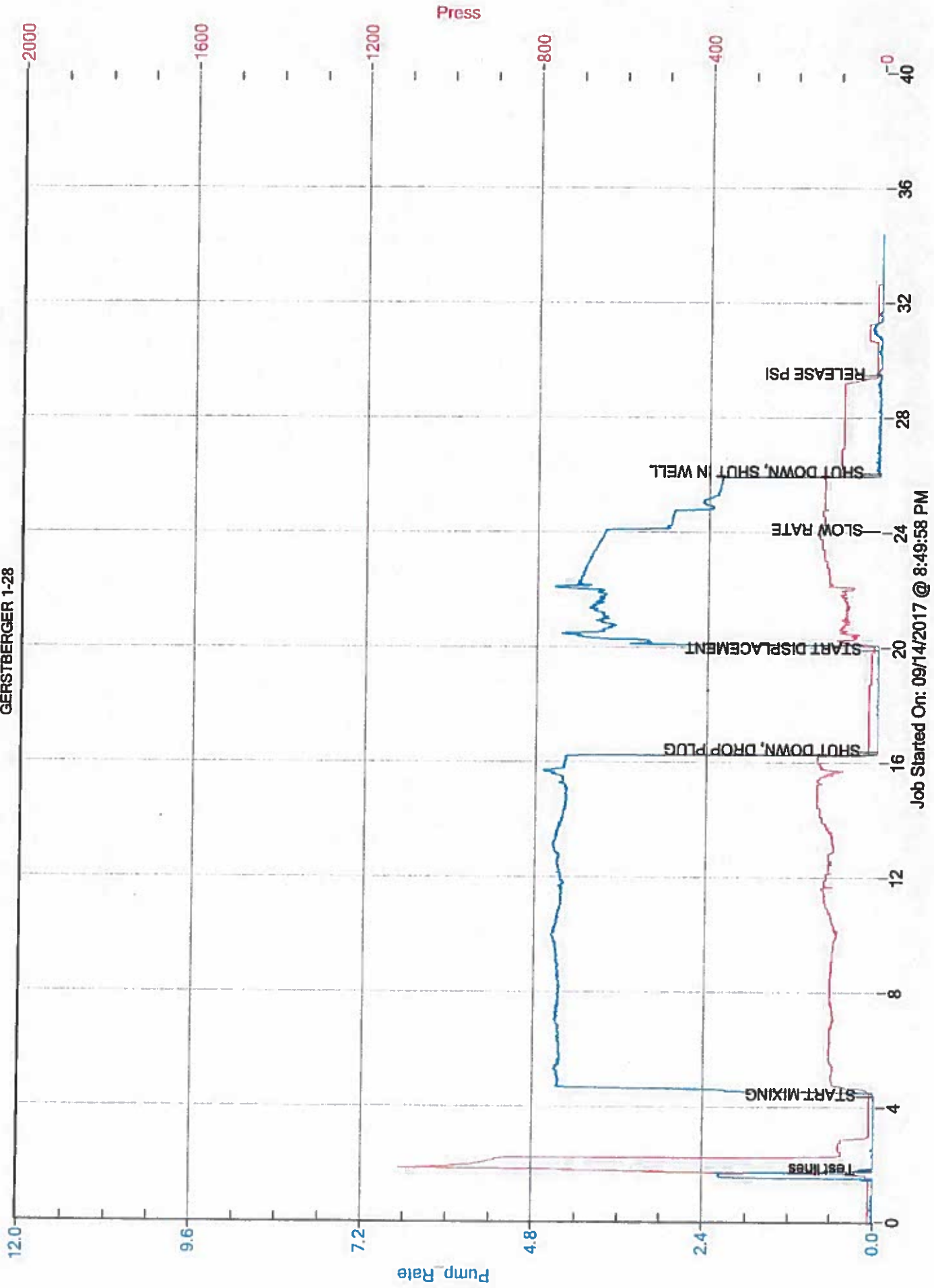
Lead/Tail:	Weight #1 Gal.	Yield	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	14.8	1.21	5.18	266.2	Man Hours:	21
<b>Tail:</b>					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
20:00							ON LOC, SAFTEY MTG, R.U.
20:46						1000	TEST LINES
8:50 PM	4.5					100	START MIXING @ 14.8#
9:03 PM		48					SHUT DOWN, DROP PLUG
9:06 PM	4					80	START DISPLACEMENT
21:11	2.3	14				120	SLOW RATE
21:13		18				120	SHUT DOWN, SHUT IN WELL
9:15 PM						120-0	RELEASE PSI
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth	310		TYPE	
Size & Wt Csg.	8 5/8 24	Depth	310	New / Used	Packer	Depth
lbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:		Basic Representative:	CHAD HINZ
		Basic Signature:	
		Date of Service:	9/14/2017

CMX  
GERSTBERGER 1-28



Job Started On: 09/14/2017 @ 8:49:58 PM



## DRILL STEM TEST REPORT

Prepared For: **CMX, Inc**

1700 N waterfront Pkwy  
Bldg 300B  
Wichita, KS 67206

ATTN: Ken LeBlank

### **Gerstberger #1-28**

### **28-14s-36w Logan,KS**

Start Date: 2017.09.18 @ 12:26:00

End Date: 2017.09.18 @ 20:08:30

Job Ticket #: 64684                      DST #: 1

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

Printed: 2017.09.21 @ 16:12:14

CMX, Inc 28-14s-36w Logan,KS Gerstberger #1-28 DST # 1 LKC C 2017.09.18



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

CMX, Inc  
1700 N w aterfront Pkw y  
Bldg 300B  
Wichita, KS 67206  
ATTN: Ken LeBlank

**28-14s-36w Logan,KS**

**Gerstberger #1-28**

Job Ticket: 64684

**DST#: 1**

Test Start: 2017.09.18 @ 12:26:00

## GENERAL INFORMATION:

Formation: **LKC C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:33:45  
 Time Test Ended: 20:08:30  
 Interval: **4000.00 ft (KB) To 4128.00 ft (KB) (TVD)**  
 Total Depth: 4128.00 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: 3115.00 ft (KB)  
 3110.00 ft (CF)  
 KB to GR/CF: 5.00 ft

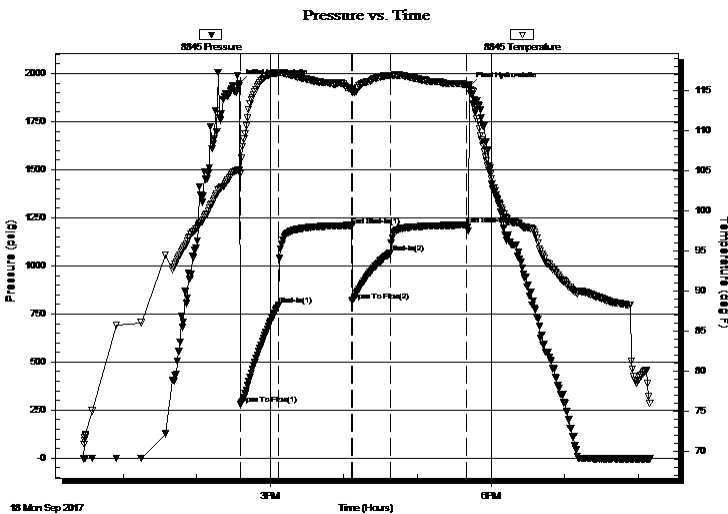
## Serial #: 8845

**Outside**

Press@RunDepth: 1068.26 psig @ 4001.00 ft (KB)  
 Start Date: 2017.09.18 End Date: 2017.09.18  
 Start Time: 12:27:45 End Time: 20:10:09  
 Capacity: 8000.00 psig  
 Last Calib.: 2017.09.18  
 Time On Btm: 2017.09.18 @ 14:34:55  
 Time Off Btm: 2017.09.18 @ 17:42:25

TEST COMMENT: IF: BOB @ 1 1/2 min.  
 IS: No return  
 FF: BOB @ 1 1/2 min.  
 FS: No return.

## PRESSURE SUMMARY



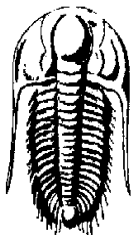
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.02	105.00	Initial Hydro-static
1	278.69	104.58	Open To Flow (1)
32	795.57	117.16	Shut-In(1)
91	1210.82	115.23	End Shut-In(1)
92	818.10	114.97	Open To Flow (2)
124	1068.26	116.82	Shut-In(2)
186	1212.16	115.68	End Shut-In(2)
188	1932.59	115.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2350.00	mcw 3m 97w (oil spots in tool)	

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

CMX, Inc  
1700 N w aterfront Pkw y  
Bldg 300B  
Wichita, KS 67206  
ATTN: Ken LeBlank

**28-14s-36w Logan,KS**

**Gerstberger #1-28**

Job Ticket: 64684

**DST#: 1**

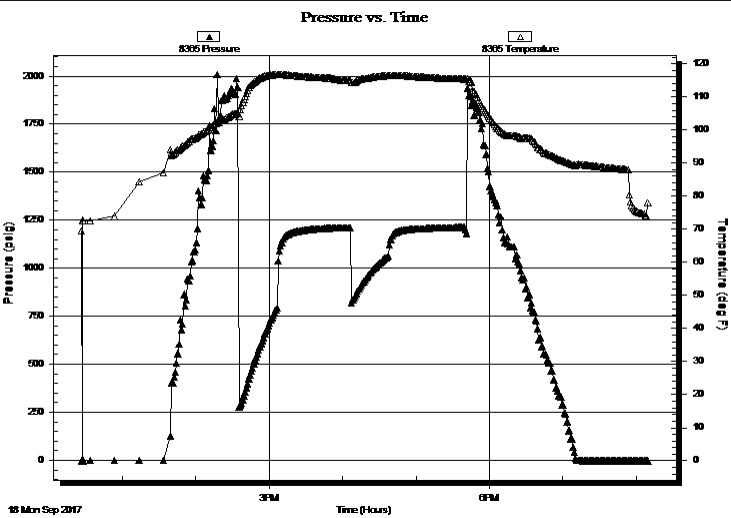
Test Start: 2017.09.18 @ 12:26:00

**GENERAL INFORMATION:**

Formation: **LKC C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 14:33:45  
 Tester: Bradley Walter  
 Time Test Ended: 20:08:30  
 Unit No: 78  
**Interval: 4000.00 ft (KB) To 4128.00 ft (KB) (TVD)**  
 Reference Elevations: 3115.00 ft (KB)  
 Total Depth: 4128.00 ft (KB) (TVD) 3110.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: psig @ 4001.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.09.18 End Date: 2017.09.18 Last Calib.: 2017.09.18  
 Start Time: 12:26:45 End Time: 20:10:09 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: BOB @ 1 1/2 min.  
 IS: No return  
 FF: BOB @ 1 1/2 min.  
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
2350.00	mcw 3m 97w (oil spots in tool)	

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX, Inc  
1700 N w aterfront Pkw y  
Bldg 300B  
Wichita, KS 67206  
ATTN: Ken LeBlank

**28-14s-36w Logan,KS**  
**Gerstberger #1-28**  
Job Ticket: 64684      **DST#: 1**  
Test Start: 2017.09.18 @ 12:26:00

**Tool Information**

Drill Pipe:	Length: 3860.00 ft	Diameter:	inches	Volume: 3749691 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter:	inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter:	inches	Volume: 1155992 bbl	Weight to Pull Loose:	80000.00 lb
				<u>Total Volume: 3865290 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft				String Weight: Initial	60000.00 lb
Depth to Top Packer:	4000.00 ft				Final	70000.00 lb
Depth to Bottom Packer:	ft					
Interval betw een Packers:	128.00 ft					
Tool Length:	155.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Jars	5.00			3989.00	
Safety Joint	2.00			3991.00	
Packer	5.00			3996.00	27.00      Bottom Of Top Packer
Packer	4.00			4000.00	
Stubb	1.00			4001.00	
Recorder	0.00	8365	Inside	4001.00	
Recorder	0.00	8845	Outside	4001.00	
Perforations	28.00			4029.00	
Change Over Sub	1.00			4030.00	
Drill Pipe	94.00			4124.00	
Change Over Sub	1.00			4125.00	
Bullnose	3.00			4128.00	128.00      Bottom Packers & Anchor

**Total Tool Length: 155.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX, Inc  
1700 N w aterfront Pkw y  
Bldg 300B  
Wichita, KS 67206  
ATTN: Ken LeBlank

**28-14s-36w Logan,KS**  
**Gerstberger #1-28**  
Job Ticket: 64684      **DST#: 1**  
Test Start: 2017.09.18 @ 12:26:00

## 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: 41000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8000.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2350.00	mcw 3m 97w (oil spots in tool)	

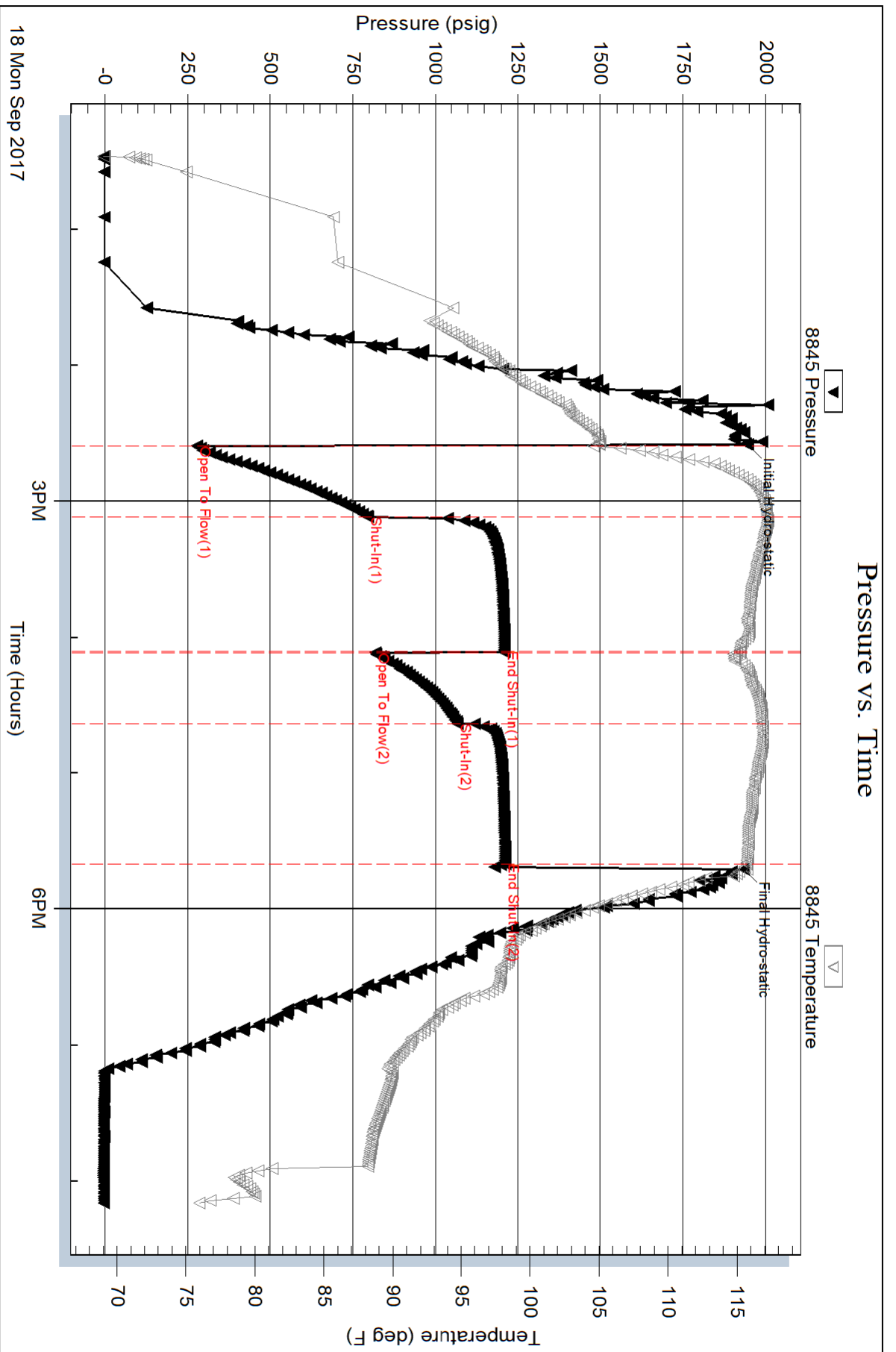
Total Length: 2350.00 ft      Total Volume: bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw is .166 @ 74f = 41000ppm





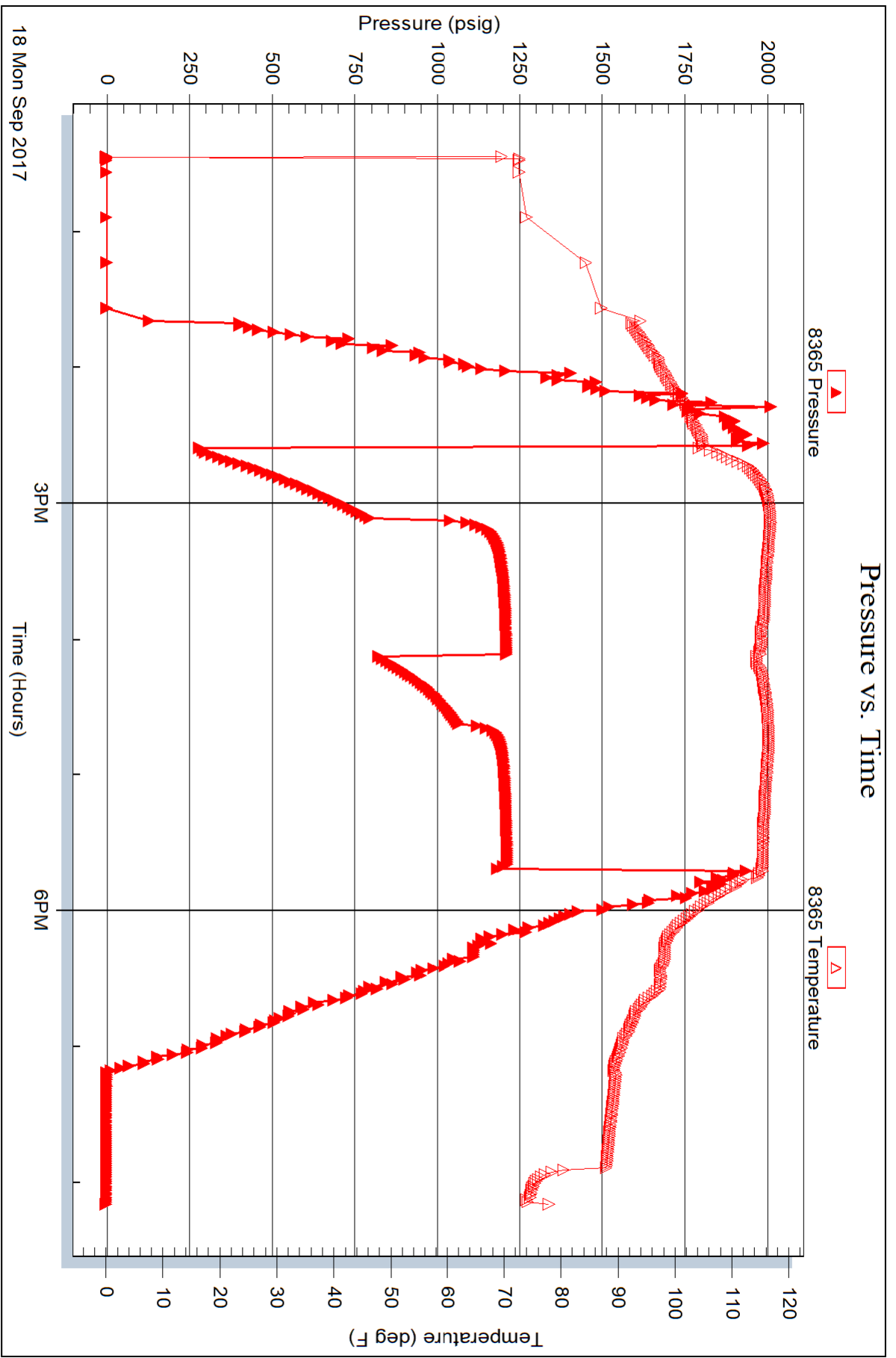
Serial #: 8365

Inside

CMX, Inc

Gerstberger #1-28

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64684

Printed: 2017.09.21 @ 16:12:16



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64684**

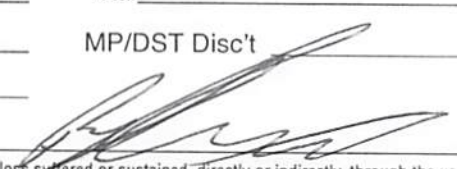
Well Name & No. Gaskitt Gerstberger #1-28 Test No. 1 Date 9/18/2017  
 Company CMX, Inc Elevation 3115 KB 3110 GL  
 Address 1700 Waterfront Pkwy Bldg 300 B Wichita, KS 67206  
 Co. Rep / Geo. Ken LeBlanc Rig WW 10  
 Location: Sec. 28 Twp. 14s Rge. 36w Co. Logan State KS

Interval Tested 4000 - 4128 Zone Tested LKC C  
 Anchor Length 128 Drill Pipe Run 3860 Mud Wt. 9.2  
 Top Packer Depth 3998 Drill Collars Run 119 Vis 53  
 Bottom Packer Depth 4000 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4128 Chlorides 8,000 ppm System LCM 1#  
 Blow Description IF: BOB @ 1 1/2 min.  
BI: No return.  
FF: BOB @ 1 1/2 min.  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2350</u>	<u>MCW</u>			<u>97</u>	<u>3</u>
	<u>oil spots in tool</u>				

Rec Total 2350 BHT 115 Gravity — API RW .166@ 74° F Chlorides 41000 ppm

(A) Initial Hydrostatic <u>1940</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1200</u>
(B) First Initial Flow <u>279</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1226</u>
(C) First Final Flow <u>796</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1433</u>
(D) Initial Shut-In <u>1211</u>	<input checked="" type="checkbox"/> Circ Sub <u>MC</u>	T-Pulled <u>1735</u>
(E) Second Initial Flow <u>818</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2010</u>
(F) Second Final Flow <u>1068</u>	<input checked="" type="checkbox"/> Mileage <u>104 RT X2 156</u>	Comments <u>PU Tools 9/21/2017 1400</u>
(G) Final Shut-In <u>1212</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1933</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby <u>2.5d 5.75h</u>	Sub Total <u>1600</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	Total <u>3231</u>
	Sub Total <u>1631</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative 

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