

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	LEGHORN 1-22
Doc ID	1351775

All Electric Logs Run

Micro
Neutron Density
Induction
Sonic

Form	ACO1 - Well Completion
Operator	CMX, Inc.
Well Name	LEGHORN 1-22
Doc ID	1351775

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	5 laterals @ 3313	55 bbl 15% Acid, 300 gal 12% Acid	3308-3318



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	03/09/2017
INVOICE NUMBER			
92369609			

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 Leghorn 1-22
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41007209	19843		Net - 30 days	04/08/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/02/2017 to 03/02/2017</i>				
0041007209				
171814907A Cement-New Well Casing/Pi 03/02/2017				
Cement 8 5/8 Surface				
60/40 POZ	180.00	EA	6.13	1,103.98 T
Calcium Chloride	465.00	EA	0.54	249.54 T
Celloflake	45.00	EA	1.89	85.10 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	81.78	81.78
"Unit Mileage Chg (PU, cars one way)"	65.00	MI	2.30	149.50
Heavy Equipment Mileage	130.00	MI	3.83	498.32
504--"Propp & Bulk Del. Chrg per ton mil	1.00	EA	643.98	643.98
Blending & Mixing Service Charge	180.00	BAG	0.72	128.80
Plug Container Util. Chg.	1.00	EA	127.77	127.77
Depth Charge; 0-500'	1.00	EA	511.10	511.10
"Service Supervisor, first 8 hrs on loc.	1.00	EA	89.44	89.44

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,669.31
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	107.90
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,777.21
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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

FIELD SERVICE TICKET
1718 14907 A

22-205-11W

DATE _____ TICKET NO. _____

DATE OF JOB 3/2/2017 DISTRICT Pratt, 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, Inc.		LEASE Leghorn				WELL NO. 1-22			
ADDRESS		COUNTY Barton		STATE KS					
CITY STATE		SERVICE CREW Darin, McGran, Roy							
AUTHORIZED BY		JOB TYPE: 242/8 5/8 SUI LSEE							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	1/2						3/1	AM	5:00
21010	1/2								
						ARRIVED AT JOB	3/1	AM	10:30
						START OPERATION	3/2	AM	5:00
						FINISH OPERATION	3/2	PM	5:30
						RELEASED	3/2	AM	6:00
						MILES FROM STATION TO WELL	51		

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
CP103	60/40 POZ	SK	180		2,160 00
CC109	Calcium Chloride	Lb	465		488 25
CC102	Celloflake	Lb	45		166 50
CF153	Wooden Cement Plug	Eg	1		160 00
E100	Unit + mileage Chrsse - Pickups, ⁵⁷⁵ 575	mi.	65		292 50
E101	Heavy Equipment + mileage	mi.	130		975 00
E113	Proppsn + 9nd Bulk Delivery Chrsse, ^{Per} Per	Tnlm	504		1,259 38
CE200	Depth Chrsse; 0-500'	4hr	1		1,000 00
CE240	Blending & mixing Service Chrsse	SK	180		252 00
S003	Service Supervisor, first & his onkd	Eg	1		175 00
CE504	PLUG CONDENSER UT. 1 1/2" ON CHRSSE	Job	1		250 00

CHEMICAL / ACID DATA:			

SUB TOTAL		7178 63
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
D.S. COUNTY TOTAL		3,669 31
DLS		

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.

TREATMENT REPORT

Customer CMX, Inc.	Lease No.	Date 3/2/2017
Lease Leshorn	Well # 1-22	
Field Order # 14907	Station Pratt, KS	Casing 8 5/8
Type Job 242/8 5/8 Surface	Depth 256	County Barton
	Formation TD-261	State KS
		Legal Description 22-205-114

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing 8 5/8	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 256	Depth	From	To	Pre Pad	Max			5 Min.
Volume 16	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 256	Packer Depth	From	To	Flush Freshwater	Gas Volume			Total Load

Customer Representative Shane Downs	Station Manager David Scott	Treater Derin Franklin
Service Units 92911 84980 19843 19959 21010		
Driver Names Derin McGraw McGraw Roy Roy		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30am					On location / Safety meeting 256' 8 5/8 casing 180 sk 60/40 P02, 3% occ., 25# cells 14.8 pps, 1.21 veid, 5/8 water
5:00pm	300		3	5	Pump 3 bbls water
	300		38	5	mix 180 sk cement
					Shut down
					Release Plug
	100		15	3	Start displacement
5:30pm					Shut in Cement did circulate to cells
					Job complete / Derin & crew Thank you!!!



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000793	1718	03/22/2017
INVOICE NUMBER			
92380202			

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 Leghorn 1-22
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
41010259	86779			Net - 30 days	04/21/2017
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/09/2017 to 03/09/2017</i>					
0041010259					
171815027A Cement-New Well Casing/Pi 03/09/2017					
Cement 5 1/2" Longstring					
AA2 Cement		190.00	EA	11.19	2,125.34 T
60/40 POZ		50.00	EA	7.90	394.80 T
Celloflake		96.00	EA	2.43	233.72 T
Salt		1,050.00	EA	0.33	345.45 T
Gypsum		895.00	EA	0.49	441.68 T
FLA-322		144.00	EA	4.94	710.64 T
Gilsonite		950.00	EA	0.44	418.82 T
Mud Flush		500.00	EA	0.99	493.50 T
"Cmt. Shoe Packer Type, 5 1/2" (Blue) "		1.00	EA	1,842.40	1,842.40
"Latch Down Plug & Baffle, 5 1/2" (Blu		1.00	EA	263.20	263.20
"Turbolizer, 5 1/2" (Blue)"		8.00	EA	72.38	579.04
"5 1/2" Basket (Blue)"		1.00	EA	190.82	190.82
"Unit Mileage Chg (PU, cars one way)"		65.00	MI	2.96	192.46
Heavy Equipment Mileage		130.00	MI	4.94	641.55
718--"Propp & Bulk Del. Chrg per ton mil		1.00	EA	1,182.20	1,182.20
Blending & Mixing Service Charge		240.00	BAG	0.92	221.09
Plug Container Util. Chg.		1.00	EA	164.50	164.50
Depth Charge; 3001-4000'		1.00	EA	1,421.28	1,421.28
"Service Supervisor, first 8 hrs on loc.		1.00	EA	115.15	115.15

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,977.64
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	387.30
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,364.94
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 15027 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>3/9/17</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>CMV, Inc</u>		LEASE <u>Loghorn</u>				1-22 WELL NO.				
ADDRESS _____		COUNTY <u>Barton</u>				STATE <u>KS</u>				
CITY _____ STATE _____		SERVICE CREW <u>Scott, Mike,</u>								
AUTHORIZED BY <u>Leah A. Kasten</u>		JOB TYPE: <u>5 1/2 Long string 242</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>86779</u> X	<u>1.25</u>									
<u>73768</u> X	<u>.4</u>									
						ARRIVED AT JOB	<u>3/9/17</u>	<u>AM</u>		<u>8:00</u>
						START OPERATION	<u>3/9/17</u>	<u>AM</u>		<u>12:45</u>
						FINISH OPERATION	<u>3/9/17</u>	<u>AM</u>		<u>2:00</u>
						RELEASED	<u>3/9/17</u>	<u>AM</u>		<u>2:30</u>
						MILES FROM STATION TO WELL _____				

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	190		3230 00	
CP103	60/40 P02	SK	50		600 00	
CC111	Salt	lb	1050		525 00	
CC102	Celloflake	lb	48		177 60	
CC113	Gypsum	lb	895		671 25	
CC129	FLA-322	lb	144		1080 00	
CC201	Gilsonite	lb	950		636 50	
CC102	Celloflake	lb	48		177 60	
CF1051	Cementing shoe Packer Type 5 1/2	EA	1		2800 00	
CF607	Latch down Plug & Baffle	EA	1		400 00	
CF1651	Turbolizers 5 1/2	EA	8		880 00	
CF1901	Docket 5 1/2	EA	1		290 00	
CC151	Mud flush	Gal	500		750 00	
F100	Unit Mileage Charge Pick up	MI	65		292 50	
E101	Heavy Equipment Mileage	MI	130		975 00	
E113	Prop & Bulk Delivery Charge	TM	718		1795 63	
CF204	Depth Charge 5001-4000'	Hrs	1		2160 00	
CF240	Blending & Mixing Charge	SK	240		336 00	
5003	Service Supervisor	EA	1		175 00	
CC504	Plug Container Utilization	Job	1		250 00	
					SUB-TOTAL	18202 08
CHEMICAL / ACID DATA:						
SERVICE & EQUIPMENT				%TAX ON \$		
MATERIALS				%TAX ON \$	✓	
TOTAL					11,977 64	

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>CMX loc</i>	Lease No.	Date <i>3/9/17</i>	
Lease <i>Lease</i>	Well # <i>1-22</i>		
Field Order # <i>15027 A</i>	Station <i>Pratt, KS</i>	Casing <i>722</i>	Depth <i>358</i>
Type Job <i>S/L Longevity</i>	Formation <i>242</i>	County <i>Benton</i>	State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>3318</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>28.73</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>2000</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Keith</i>	Station Manager <i>Scotty</i>	Treater <i>Scotty</i>
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Service Units	<i>75950</i>	<i>28967</i>	<i>56779</i>	<i>19960</i>	<i>73769</i>
Driver Names	<i>Scotty</i>	<i>Mike</i>	<i>-</i>	<i>Purdie</i>	<i>-</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:00</i>					<i>On Location Safety Meeting Rig up</i>
<i>9:30</i>					<i>Run float equipment Busted float #2</i>
					<i>Turbalizers 2,4,6,8,10,12,14,16</i>
<i>11:30</i>					<i>Break Circulation</i>
<i>12:45</i>	<i>1400</i>				<i>Set packer shoe Pressure up</i>
<i>12:46</i>	<i>200</i>				<i>Pressure fall back shoe set</i>
<i>12:47</i>	<i>200</i>			<i>4.5</i>	<i>Pump H₂O spacer</i>
<i>12:48</i>	<i>225</i>		<i>5</i>	<i>4.5</i>	<i>Pump 500 gallons Mud flush</i>
<i>12:50</i>	<i>225</i>		<i>12</i>	<i>4.5</i>	<i>Pump H₂O spacer</i>
<i>12:52</i>	<i>450</i>		<i>5</i>	<i>6.3</i>	<i>Mix 190 slts AA7 14.8 ppb</i>
<i>12:59</i>	<i>0</i>		<i>52.2</i>	<i>0</i>	<i>Shut down</i>
<i>1:03</i>					<i>blush pump + line clean</i>
<i>1:05</i>	<i>200</i>			<i>6.3</i>	<i>Release Plug Start Displacement</i>
<i>1:13</i>	<i>400</i>		<i>47</i>	<i>6.3</i>	<i>lift Pressure</i>
<i>1:18</i>	<i>800</i>		<i>20</i>	<i>3.6</i>	<i>Reduce Rate</i>
<i>1:27</i>	<i>1500</i>		<i>9</i>	<i>3.6</i>	<i>Plug landed pressure up</i>
<i>1:30</i>	<i>0</i>				<i>Release Pressure NO Production</i>
<i>1:31</i>					<i>Shut in well head</i>
<i>1:35</i>			<i>25</i>	<i>3</i>	<i>Plug bit hole 30 slts 60/40 P02</i>
<i>1:40</i>			<i>5</i>	<i>3</i>	<i>Plug Mouse hole 20 slts 60/40 P02</i>
<i>1:45</i>					<i>blush up equipment</i>
<i>2:00</i>					<i>Job complete</i>



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Ken LeBlanc

Leghorn #1-22

22-20S-11W Barton,KS

Start Date: 2017.03.05 @ 22:08:03

End Date: 2017.03.06 @ 05:56:48

Job Ticket #: 63571 DST #: 1

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

Printed: 2017.03.08 @ 15:05:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX Inc
1700 N Waterfront Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton,KS

Leghorn #1-22

Job Ticket: 63571

DST#: 1

Test Start: 2017.03.05 @ 22:08:03

GENERAL INFORMATION:

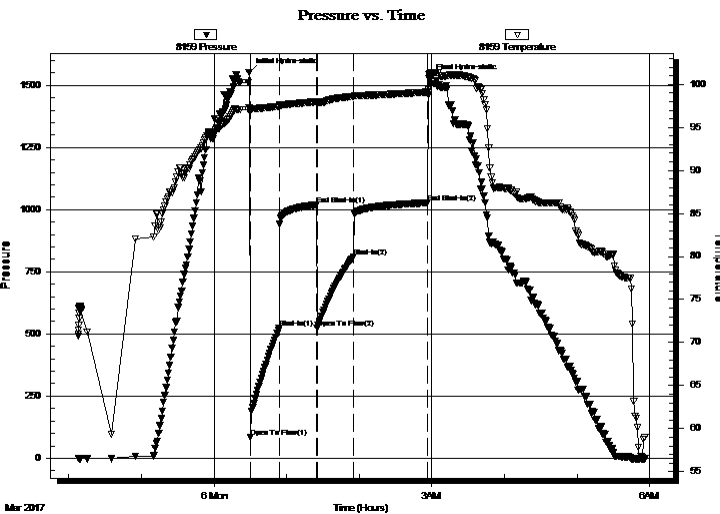
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:30:03
 Time Test Ended: 05:56:48
 Interval: **3130.00 ft (KB) To 3140.00 ft (KB) (TVD)**
 Total Depth: 3140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8159

Inside

Press@RunDepth: 808.83 psig @ 3131.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.05 End Date: 2017.03.06 Last Calib.: 2017.03.06
 Start Time: 22:08:04 End Time: 05:56:48 Time On Btm: 2017.03.06 @ 00:29:03
 Time Off Btm: 2017.03.06 @ 02:57:48

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
 IS: 4" Blow Back
 FF: Strong Blow , BOB in 1 minute, GTS in 22 minutes, Caught Sample, TSTM
 FS: 5" Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1552.41	97.24	Initial Hydro-static
1	83.97	97.17	Open To Flow (1)
25	523.39	97.45	Shut-In(1)
56	1019.47	97.98	End Shut-In(1)
56	524.89	97.71	Open To Flow (2)
86	808.83	98.61	Shut-In(2)
148	1027.85	99.10	End Shut-In(2)
149	1528.43	101.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
1449.00	Water	20.33
252.00	OMCW 10%O 10%M 80%W	3.53
63.00	OMCW 14%O 32%M 54%W	0.88
3.00	Oil	0.04

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc
1700 N Waterfront Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63571

DST#: 1

Test Start: 2017.03.05 @ 22:08:03

GENERAL INFORMATION:

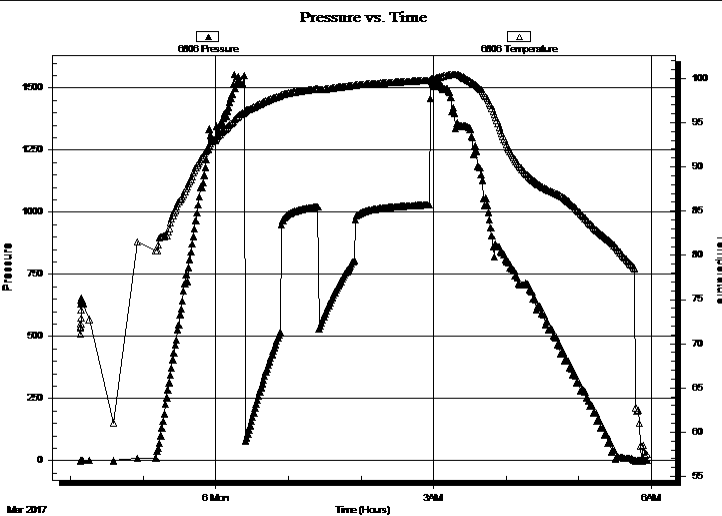
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:30:03 Tester: Leal Cason
 Time Test Ended: 05:56:48 Unit No: 74
Interval: 3130.00 ft (KB) To 3140.00 ft (KB) (TVD) Reference Elevations: 1768.00 ft (KB)
 Total Depth: 3140.00 ft (KB) (TVD) 1759.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: **6806**

Outside

Press@RunDepth: psig @ 3131.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.05 End Date: 2017.03.06 Last Calib.: 2017.03.06
 Start Time: 22:08:04 End Time: 05:56:48 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 30 seconds
 IS: 4" Blow Back
 FF: Strong Blow, BOB in 1 minute, GTS in 22 minutes, Caught Sample, TSTM
 FS: 5" Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
1449.00	Water	20.33
252.00	OMCW 10%O 10%M 80%W	3.53
63.00	OMCW 14%O 32%M 54%W	0.88
3.00	Oil	0.04

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: Ken LeBlanc

22-20S-11W Barton, KS
Leghorn #1-22
Job Ticket: 63571 **DST#: 1**
Test Start: 2017.03.05 @ 22:08:03

Tool Information

Drill Pipe:	Length: 3127.00 ft	Diameter: 3.80 inches	Volume: 43.86 bbl	Tool Weight: 2100.00 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: 65000.00 lb
			<u>Total Volume: 43.86 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3130.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3114.00	
Hydraulic tool	5.00			3119.00	
Safety Joint	2.00			3121.00	
Packer	5.00			3126.00	21.00 Bottom Of Top Packer
Packer	4.00			3130.00	
Stubb	1.00			3131.00	
Recorder	0.00	8159	Inside	3131.00	
Recorder	0.00	6806	Outside	3131.00	
Perforations	6.00			3137.00	
Bullnose	3.00			3140.00	10.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N Waterfront Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton,KS
Leghorn #1-22
Job Ticket: 63571 **DST#: 1**
Test Start: 2017.03.05 @ 22:08:03

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:	70000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
1449.00	Water	20.326
252.00	OMCW 10%O 10%M 80%W	3.535
63.00	OMCW 14%O 32%M 54%W	0.884
3.00	Oil	0.042

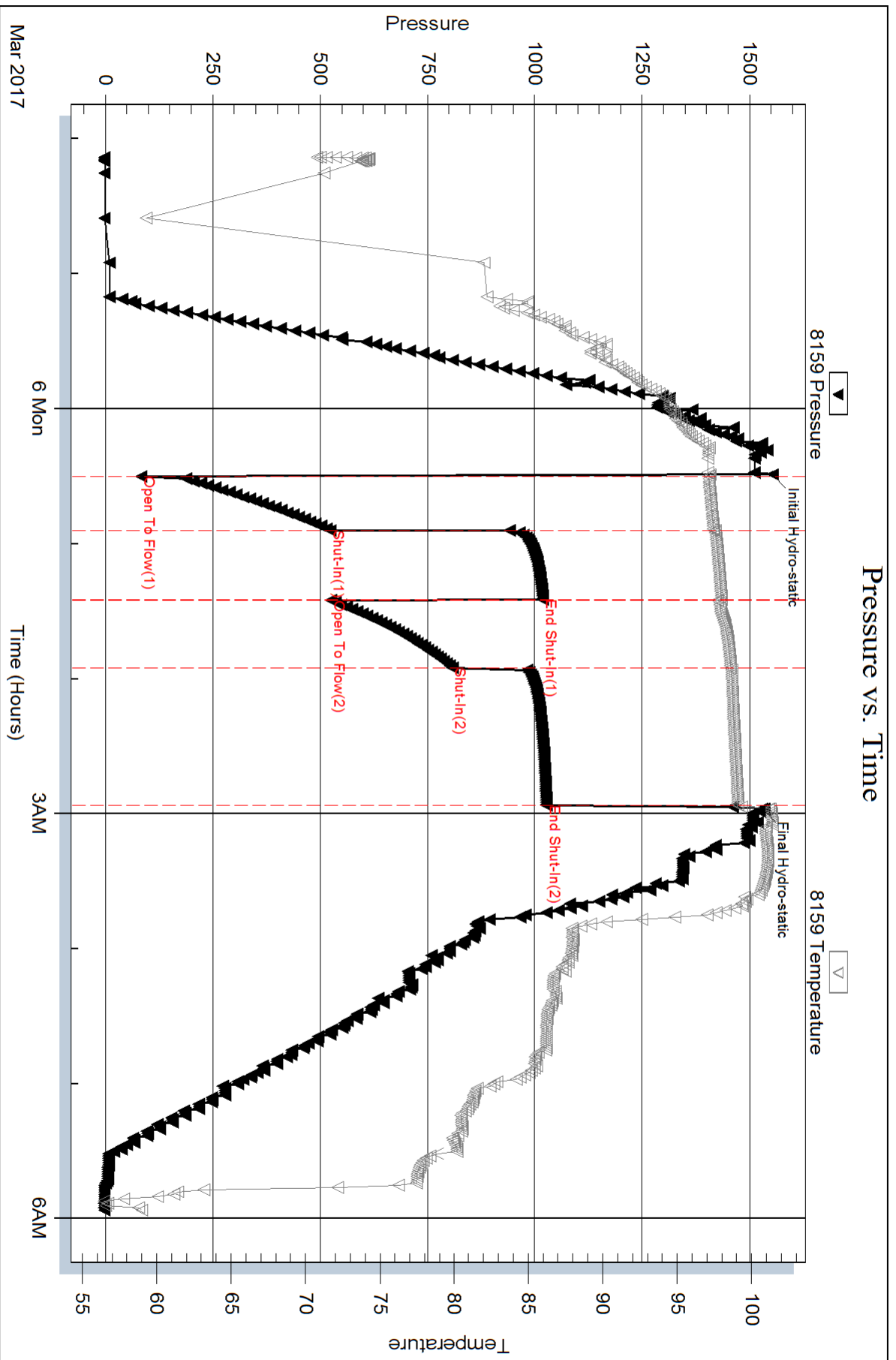
Total Length: 1767.00 ft Total Volume: 24.787 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW w as .14 @ 55 degrees

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Ken LeBlanc

Leghorn #1-22

22-20S-11W Barton,KS

Start Date: 2017.03.06 @ 14:58:15

End Date: 2017.03.06 @ 20:38:45

Job Ticket #: 63572 DST #: 2

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

Printed: 2017.03.08 @ 15:05:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkw y
 Bldg 300B
 Wichita, KS 67206
 ATTN: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63572

DST#: 2

Test Start: 2017.03.06 @ 14:58:15

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:25:15
 Time Test Ended: 20:38:45
 Interval: **3172.00 ft (KB) To 3200.00 ft (KB) (TVD)**
 Total Depth: 3200.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

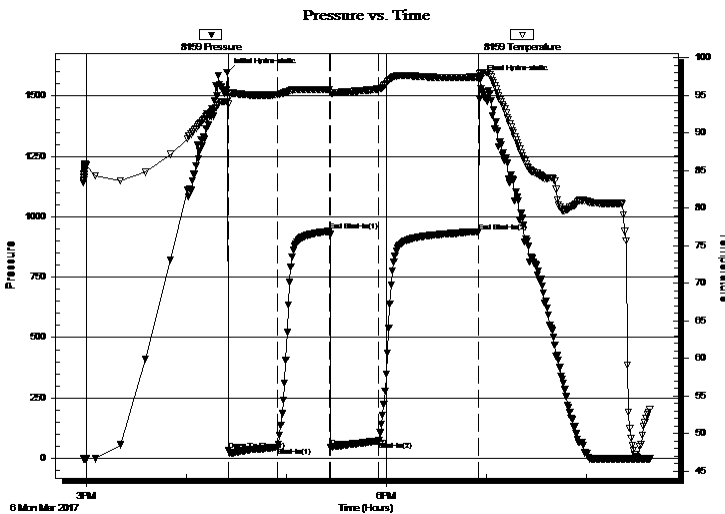
Serial #: 8159

Inside

Press@RunDepth: 72.16 psig @ 3173.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.06 End Date: 2017.03.06 Last Calib.: 1899.12.30
 Start Time: 14:58:16 End Time: 20:38:45 Time On Btm: 2017.03.06 @ 16:24:30
 Time Off Btm: 2017.03.06 @ 18:56:30

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
 IS: No Blow Back
 FF: Strong Blow , BOB in 30 seconds, GTS in 13 minutes, TSTM, Caught Sample
 FS: 2" Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.52	94.16	Initial Hydro-static
1	34.23	93.82	Open To Flow (1)
31	46.85	95.07	Shut-In(1)
62	940.30	95.78	End Shut-In(1)
63	44.64	95.36	Open To Flow (2)
91	72.16	95.85	Shut-In(2)
151	938.22	97.44	End Shut-In(2)
152	1567.04	97.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
120.00	GWMCO 25%G 5%W 10%M 60%O	1.68
30.00	Oil	0.42

* 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: Ken LeBlanc

22-20S-11W Barton,KS

Leghorn #1-22

Job Ticket: 63572 **DST#: 2**

Test Start: 2017.03.06 @ 14:58:15

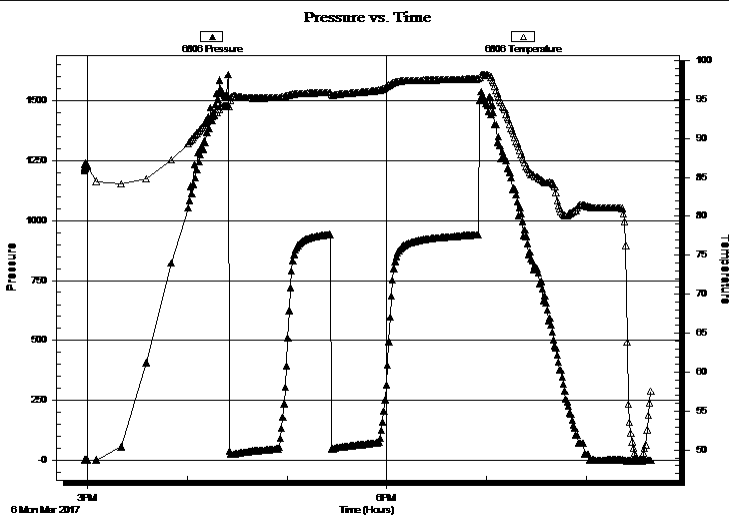
GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:25:15 Tester: Leal Cason
 Time Test Ended: 20:38:45 Unit No: 74
Interval: 3172.00 ft (KB) To 3200.00 ft (KB) (TVD) Reference Elevations: 1768.00 ft (KB)
 Total Depth: 3200.00 ft (KB) (TVD) 1759.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6806 Outside

Press@RunDepth: psig @ 3173.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.06 End Date: 2017.03.06 Last Calib.: 2017.03.06
 Start Time: 14:58:16 End Time: 20:38:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
 IS: No Blow Back
 FF: Strong Blow , BOB in 30 seconds, GTS in 13 minutes, TSTM, Caught Sample
 FS: 2" Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
120.00	GWMCO 25%G 5%W 10%M 60%O	1.68
30.00	Oil	0.42

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: Ken LeBlanc

22-20S-11W Barton, KS
Leghorn #1-22
Job Ticket: 63572 **DST#: 2**
Test Start: 2017.03.06 @ 14:58:15

Tool Information

Drill Pipe:	Length: 3158.00 ft	Diameter: 3.80 inches	Volume: 44.30 bbl	Tool Weight: 2100.00 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: 60000.00 lb
		Total Volume: 44.30 bbl		Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3172.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 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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Shut In Tool	5.00			3156.00	
Hydraulic tool	5.00			3161.00	
Safety Joint	2.00			3163.00	
Packer	5.00			3168.00	21.00 Bottom Of Top Packer
Packer	4.00			3172.00	
Stubb	1.00			3173.00	
Recorder	0.00	8159	Inside	3173.00	
Recorder	0.00	6806	Outside	3173.00	
Perforations	24.00			3197.00	
Bullnose	3.00			3200.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton,KS
Leghorn #1-22
Job Ticket: 63572 **DST#: 2**
Test Start: 2017.03.06 @ 14:58:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39.7 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5300.00 ppm		
Filter Cake: 0.02 inches		

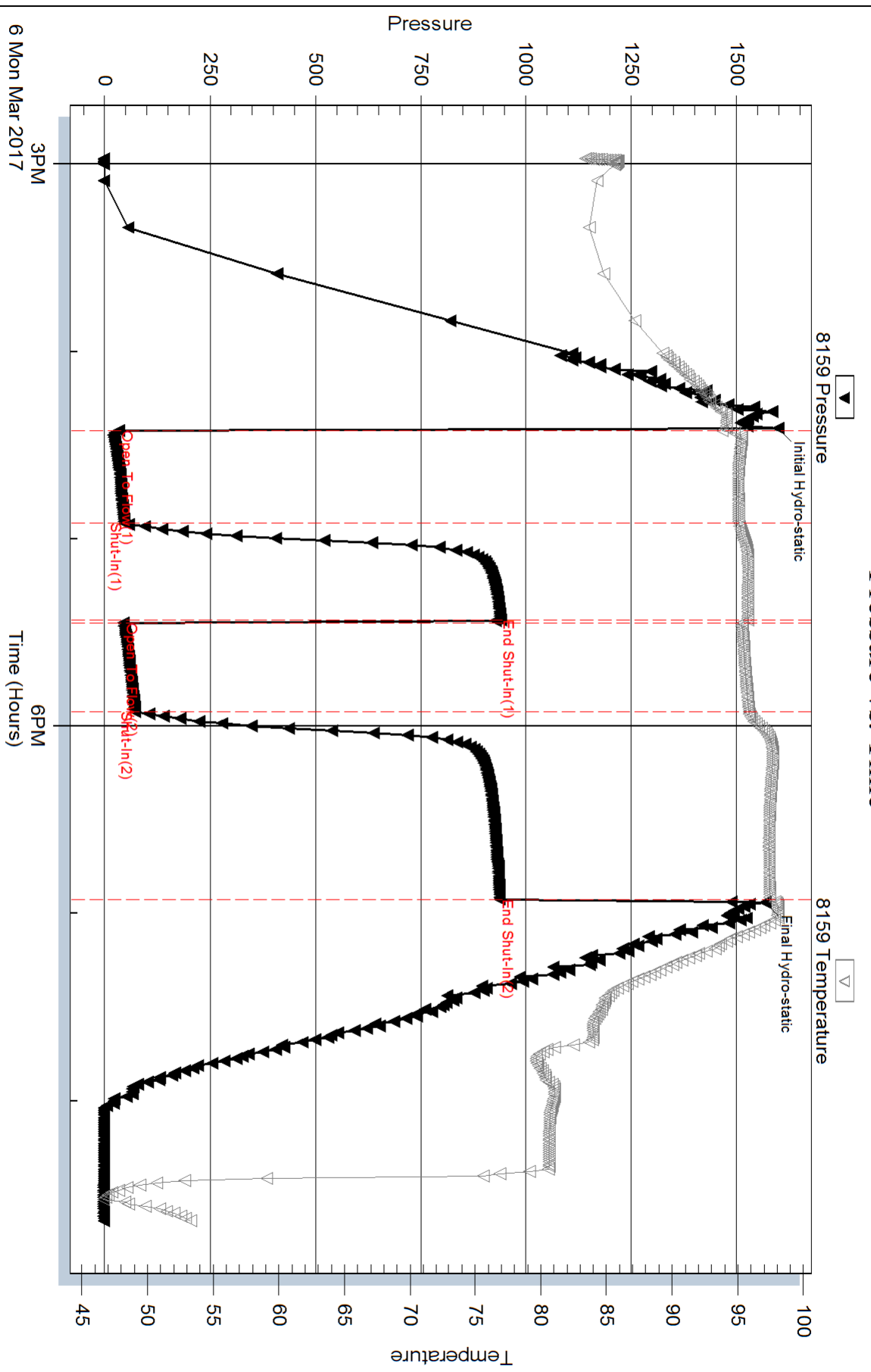
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
120.00	GWMCO 25%G 5%W 10%M 60%O	1.683
30.00	Oil	0.421

Total Length: 150.00 ft Total Volume: 2.104 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity was 39.2 @ 55 degrees

Pressure vs. Time

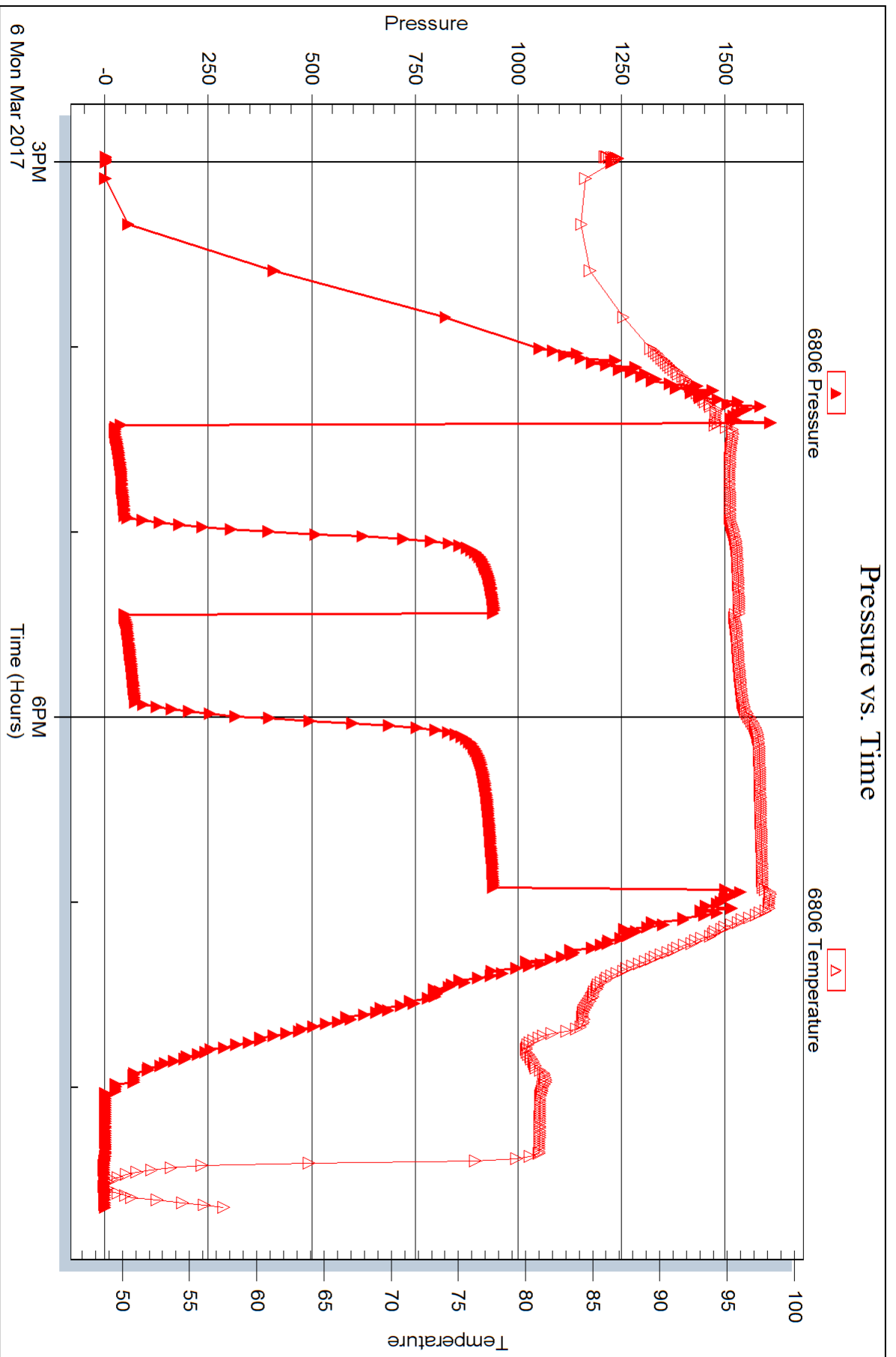


Serial #: 6806

Outside CMX Inc

Leghorn #1-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63572

Printed: 2017.03.08 @ 15:05:07



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Ken LeBlanc

Leghorn #1-22

22-20S-11W Barton,KS

Start Date: 2017.03.07 @ 11:52:11

End Date: 2017.03.07 @ 17:49:47

Job Ticket #: 63573 DST #: 3

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

Printed: 2017.03.08 @ 15:04:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkw y
 Bldg 300B
 Wichita, KS 67206
 ATTN: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63573

DST#: 3

Test Start: 2017.03.07 @ 11:52:11

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:16:56
 Time Test Ended: 17:49:47
 Interval: **3260.00 ft (KB) To 3307.00 ft (KB) (TVD)**
 Total Depth: 3307.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 68
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

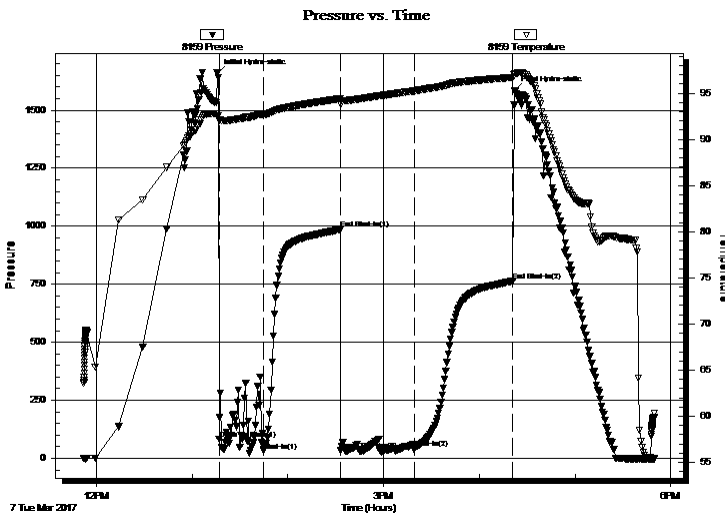
Serial #: 8159

Inside

Press@RunDepth: 44.67 psig @ 3261.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.07 End Date: 2017.03.07 Last Calib.: 2017.03.07
 Start Time: 11:52:12 End Time: 17:49:47 Time On Btm: 2017.03.07 @ 13:15:41
 Time Off Btm: 2017.03.07 @ 16:22:11

TEST COMMENT: IF: Weak Blow , Built to 1 3/4"
 IS: No Blow Back
 FF: Weak Blow , Built to 4 1/2" Died Off to 2"
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.53	92.82	Initial Hydro-static
2	83.55	92.08	Open To Flow (1)
29	32.38	92.67	Shut-In(1)
78	986.78	94.41	End Shut-In(1)
78	35.39	93.81	Open To Flow (2)
124	44.67	95.26	Shut-In(2)
186	764.33	96.71	End Shut-In(2)
187	1582.65	97.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	135 GIP	0.00
25.00	MCO 30%M 7-%O	0.35

* 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: Ken LeBlanc

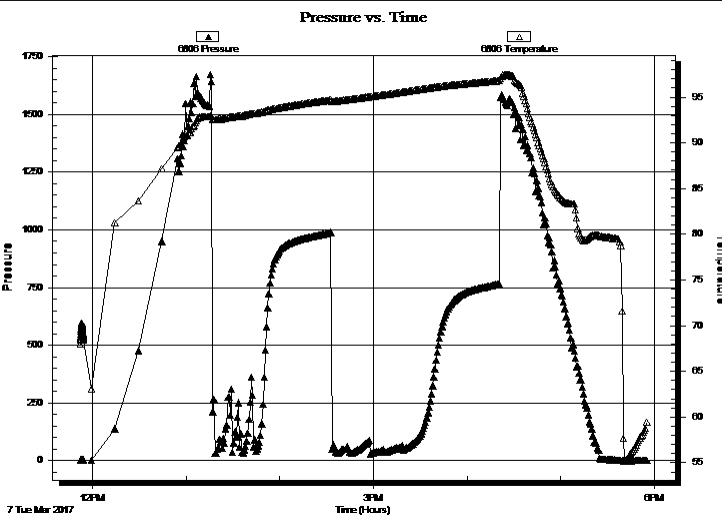
22-20S-11W Barton,KS
Leghorn #1-22
Job Ticket: 63573 **DST#: 3**
Test Start: 2017.03.07 @ 11:52:11

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:16:56
Time Test Ended: 17:49:47
Interval: **3260.00 ft (KB) To 3307.00 ft (KB) (TVD)**
Total Depth: 3307.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 68
Reference Elevations: 1768.00 ft (KB)
1759.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6806 Outside
Press@RunDepth: psig @ 3261.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.03.07 End Date: 2017.03.07 Last Calib.: 2017.03.07
Start Time: 11:52:12 End Time: 17:55:41 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 1 3/4"
IS: No Blow Back
FF: Weak Blow , Built to 4 1/2" Died Off to 2"
FS: No Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	135 GIP	0.00
25.00	MCO 30%M 7-%O	0.35

* 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: Ken LeBlanc

22-20S-11W Barton, KS
Leghorn #1-22
Job Ticket: 63573 **DST#: 3**
Test Start: 2017.03.07 @ 11:52:11

Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2100.00 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: 60000.00 lb
			<u>Total Volume: 45.60 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3260.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3244.00	
Hydraulic tool	5.00			3249.00	
Safety Joint	2.00			3251.00	
Packer	5.00			3256.00	21.00 Bottom Of Top Packer
Packer	4.00			3260.00	
Stubb	1.00			3261.00	
Recorder	0.00	8159	Inside	3261.00	
Recorder	0.00	6806	Outside	3261.00	
Perforations	6.00			3267.00	
Change Over Sub	1.00			3268.00	
Drill Pipe	32.00			3300.00	
Change Over Sub	1.00			3301.00	
Perforations	3.00			3304.00	
Bullnose	3.00			3307.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton,KS
Leghorn #1-22
Job Ticket: 63573 **DST#: 3**
Test Start: 2017.03.07 @ 11:52:11

Mud and Cushion Information

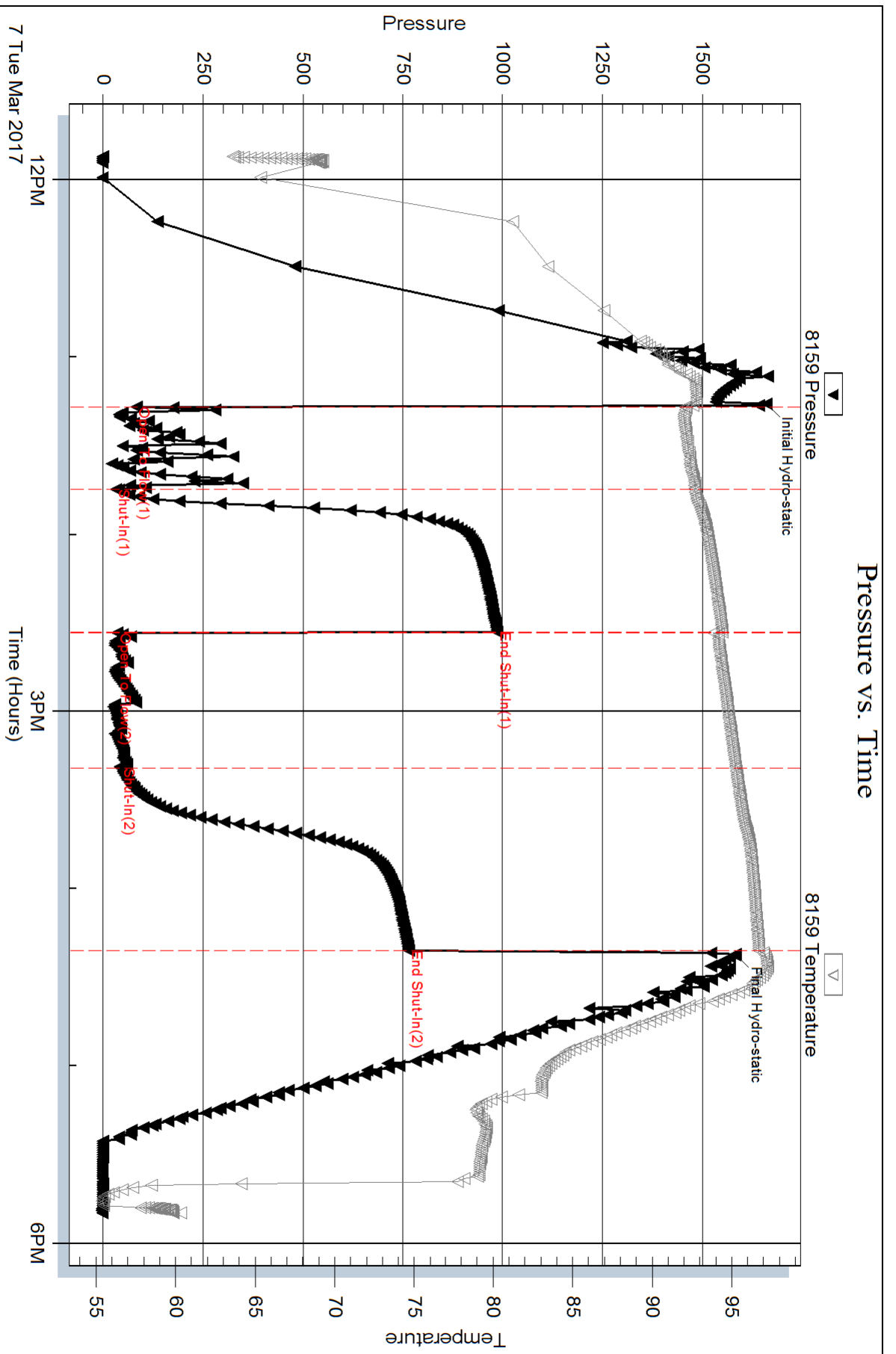
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: 0.02 inches			

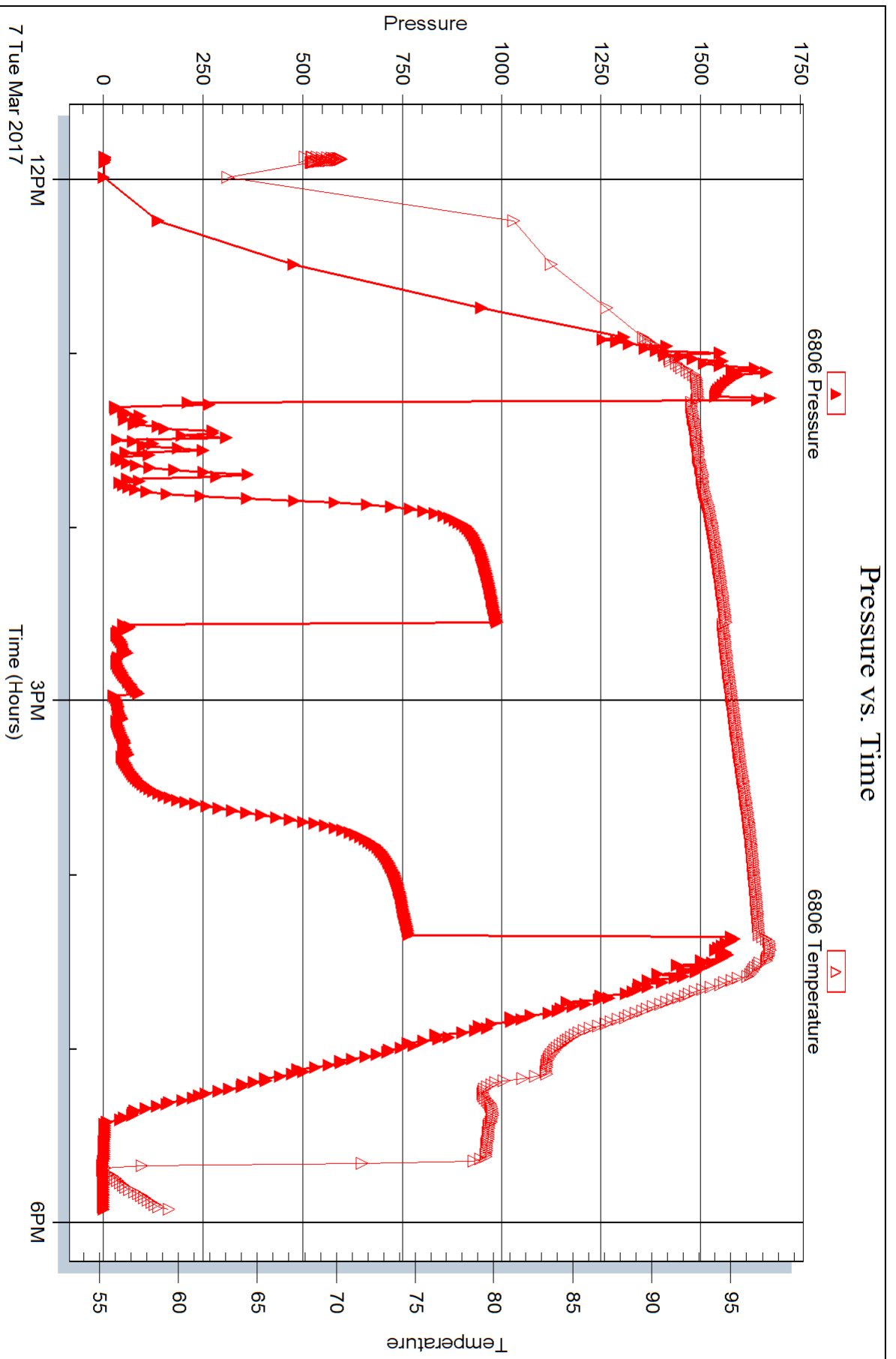
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	135 GIP	0.000
25.00	MCO 30%M 7-%O	0.351

Total Length: 25.00 ft Total Volume: 0.351 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: Ken LeBlanc

Leghorn #1-22

22-20S-11W Barton,KS

Start Date: 2017.03.08 @ 00:10:17

End Date: 2017.03.08 @ 07:44:47

Job Ticket #: 63574 DST #: 4

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

Printed: 2017.03.08 @ 15:03:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkw y
 Bldg 300B
 Wichita, KS 67206
 ATTN: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63574

DST#: 4

Test Start: 2017.03.08 @ 00:10:17

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:40:17
 Time Test Ended: 07:44:47
 Interval: **3265.00 ft (KB) To 3312.00 ft (KB) (TVD)**
 Total Depth: 3312.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 68
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

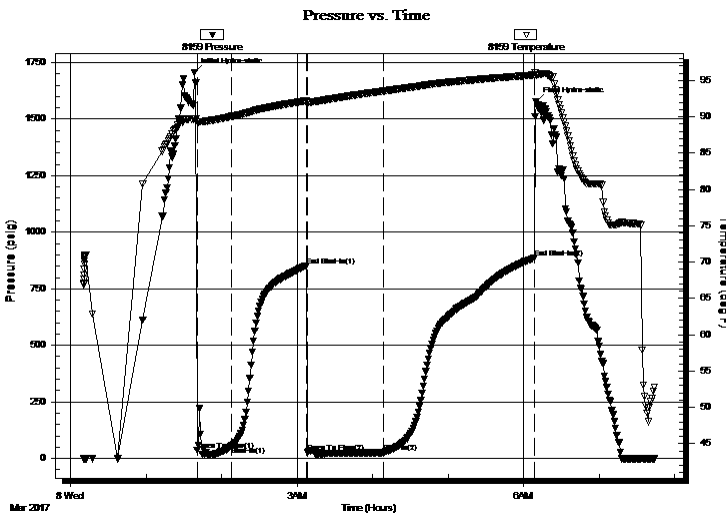
Serial #: 8159

Inside

Press@RunDepth: 26.67 psig @ 3266.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.08 End Date: 2017.03.08 Last Calib.: 2017.03.08
 Start Time: 00:10:18 End Time: 07:44:47 Time On Btm: 2017.03.08 @ 01:38:17
 Time Off Btm: 2017.03.08 @ 06:10:02

TEST COMMENT: IF: Weak 1/2" Blow
 IS: No Blow Back
 FF: Weak 2" Blow
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.24	89.75	Initial Hydro-static
2	37.08	89.33	Open To Flow (1)
30	52.73	90.06	Shut-In(1)
90	851.21	92.21	End Shut-In(1)
90	24.86	91.98	Open To Flow (2)
151	26.67	93.55	Shut-In(2)
271	885.60	95.75	End Shut-In(2)
272	1578.66	95.78	Final Hydro-static

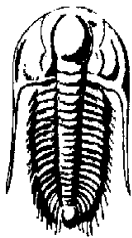
Recovery

Length (ft)	Description	Volume (bbl)
0.00	150 GIP	0.00
30.00	GOCM 12%G 24%O 64%M	0.42

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkwy
 Bldg 300B
 Wichita, KS 67206
 ATTN: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63574

DST#: 4

Test Start: 2017.03.08 @ 00:10:17

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:40:17
 Time Test Ended: 07:44:47
 Interval: **3265.00 ft (KB) To 3312.00 ft (KB) (TVD)**
 Total Depth: 3312.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 68
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

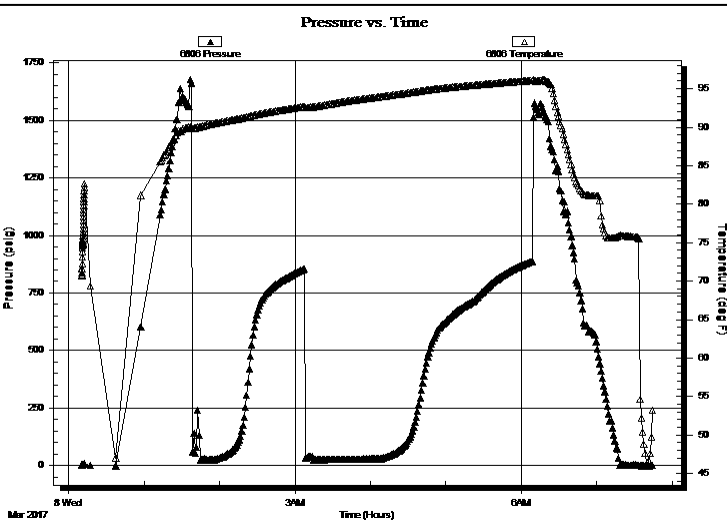
Serial #: 6806

Outside

Press@RunDepth: psig @ 3266.00 ft (KB)
 Start Date: 2017.03.08 End Date: 2017.03.08
 Start Time: 00:10:18 End Time: 07:45:02

Capacity: 8000.00 psig
 Last Calib.: 2017.03.08
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak 1/2" Blow
 IS: No Blow Back
 FF: Weak 2" Blow
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	150 GIP	0.00
30.00	GOCM 12%G 24%O 64%M	0.42

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: Ken LeBlanc

22-20S-11W Barton, KS
Leghorn #1-22
Job Ticket: 63574 **DST#: 4**
Test Start: 2017.03.08 @ 00:10:17

Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2100.00 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: 58000.00 lb
			<u>Total Volume: 45.60 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3265.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3249.00	
Hydraulic tool	5.00			3254.00	
Safety Joint	2.00			3256.00	
Packer	5.00			3261.00	21.00 Bottom Of Top Packer
Packer	4.00			3265.00	
Stubb	1.00			3266.00	
Recorder	0.00	8159	Inside	3266.00	
Recorder	0.00	6806	Outside	3266.00	
Perforations	6.00			3272.00	
Change Over Sub	1.00			3273.00	
Drill Pipe	32.00			3305.00	
Change Over Sub	1.00			3306.00	
Perforations	3.00			3309.00	
Bullnose	3.00			3312.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton,KS
Leghorn #1-22
Job Ticket: 63574 **DST#: 4**
Test Start: 2017.03.08 @ 00:10:17

Mud and Cushion Information

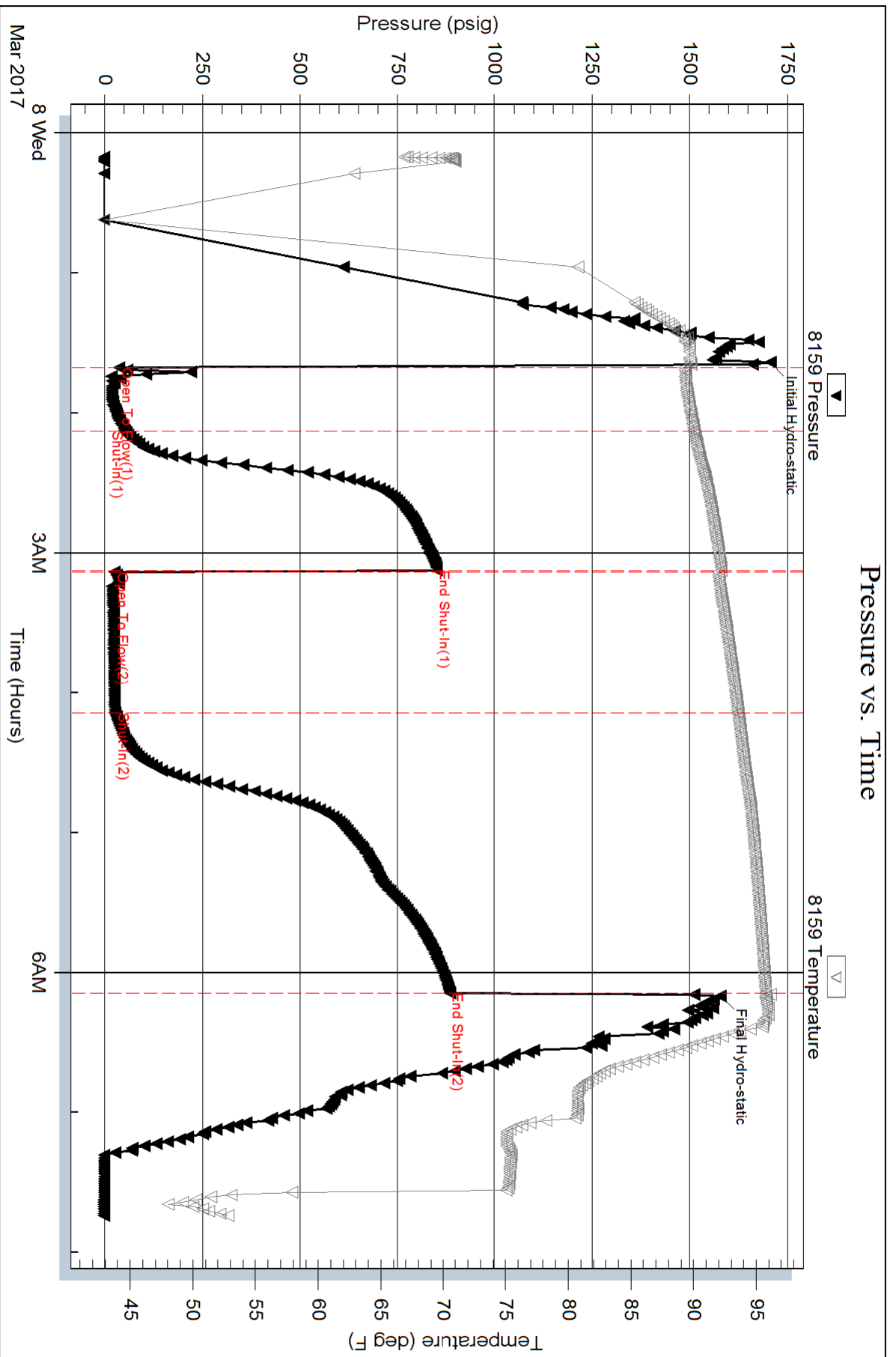
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8300.00 ppm			
Filter Cake: 0.02 inches			

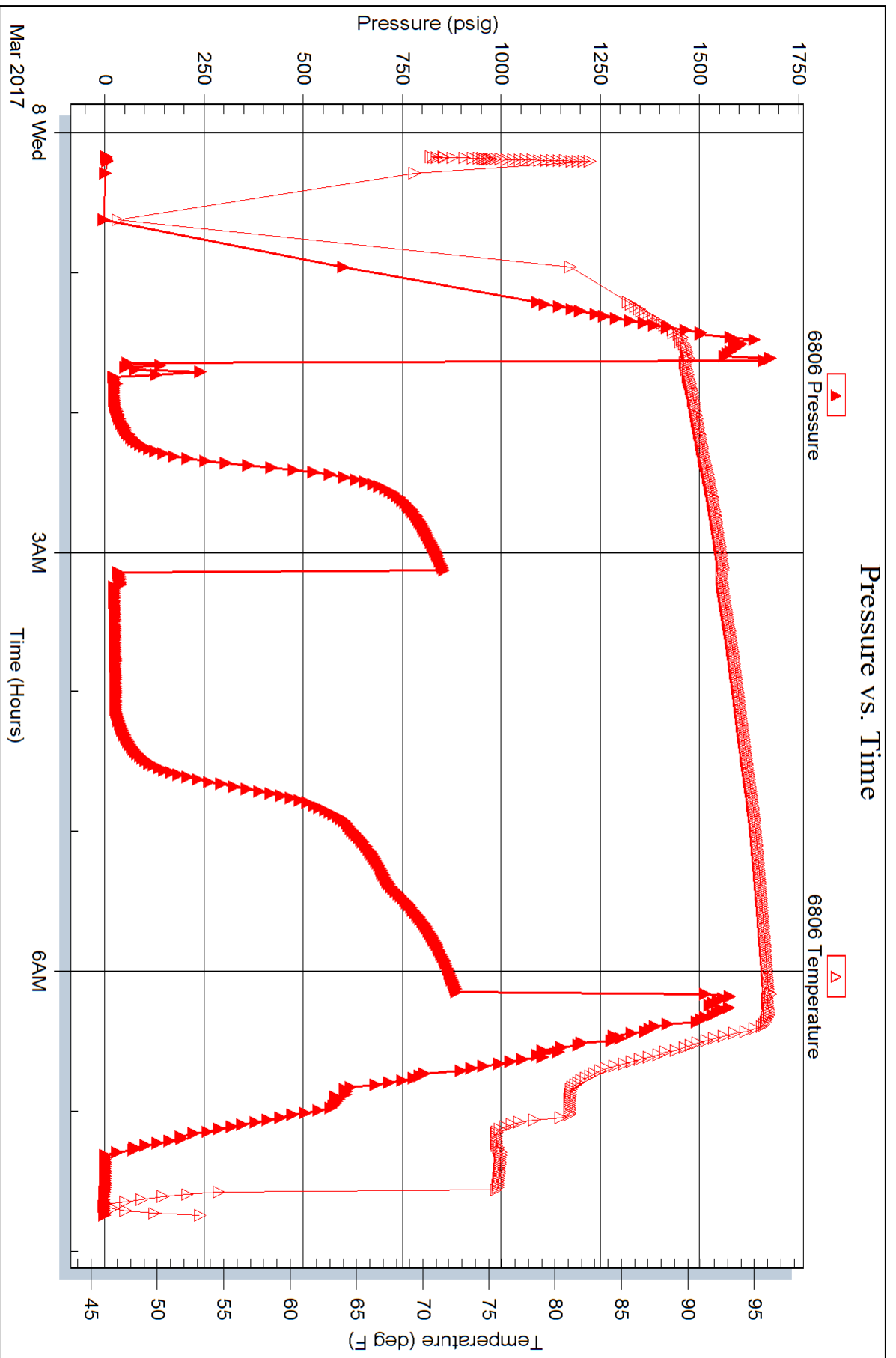
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	150 GIP	0.000
30.00	GOCM 12%G 24%O 64%M	0.421

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:







DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Ken LeBlanc

Leghorn #1-22

22-20S-11W Barton,KS

Start Date: 2017.03.08 @ 19:46:49

End Date: 2017.03.09 @ 02:28:19

Job Ticket #: 63575 DST #: 5

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

Printed: 2017.03.09 @ 08:20:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkw y
 Bldg 300B
 Wichita, KS 67206
 ATTN: Ken LeBlanc

22-20S-11W Barton,KS

Leghorn #1-22

Job Ticket: 63575

DST#: 5

Test Start: 2017.03.08 @ 19:46:49

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:10:04
 Time Test Ended: 02:28:19
 Interval: **3308.00 ft (KB) To 3318.00 ft (KB) (TVD)**
 Total Depth: 3318.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 68
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8159

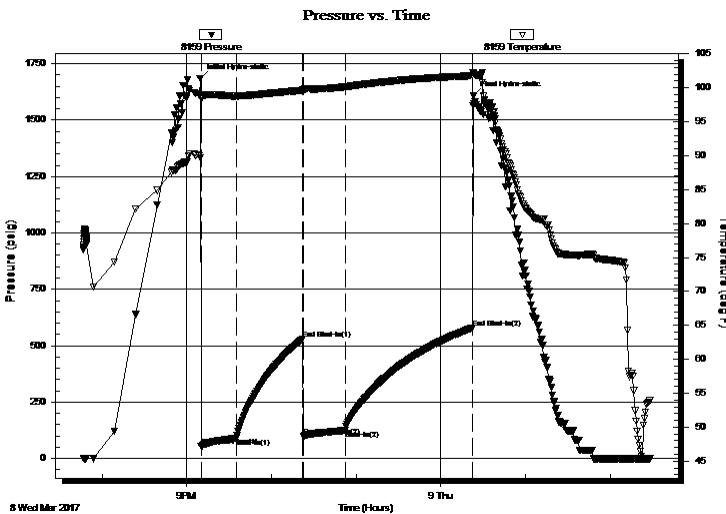
Inside

Press@RunDepth: 125.40 psig @ 3309.00 ft (KB)
 Start Date: 2017.03.08 End Date: 2017.03.09
 Start Time: 19:46:50 End Time: 02:28:19

Capacity: 8000.00 psig
 Last Calib.: 2017.03.09
 Time On Btm: 2017.03.08 @ 21:09:19
 Time Off Btm: 2017.03.09 @ 00:23:04

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
 IS: No Blow Back
 FF: Strong Blow , BOB in 4 minutes
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.32	89.69	Initial Hydro-static
1	54.64	98.38	Open To Flow (1)
26	89.11	98.77	Shut-In(1)
73	529.33	99.62	End Shut-In(1)
74	99.26	99.67	Open To Flow (2)
103	125.40	100.13	Shut-In(2)
194	578.67	101.76	End Shut-In(2)
194	1606.58	102.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	315 GIP	0.00
120.00	GMCO 10%G 10%M 80%O	1.68
187.00	Oil	2.62

* 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: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63575

DST#: 5

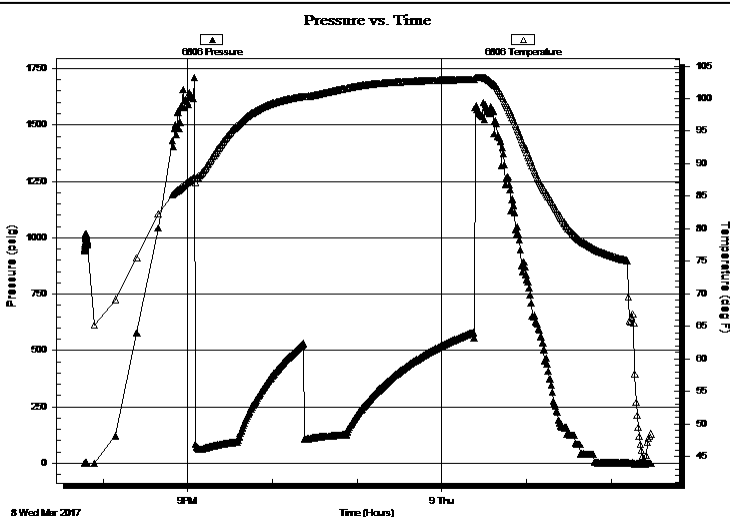
Test Start: 2017.03.08 @ 19:46:49

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:10:04
 Time Test Ended: 02:28:19
 Interval: **3308.00 ft (KB) To 3318.00 ft (KB) (TVD)**
 Total Depth: 3318.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 68
 Reference Elevations: 1768.00 ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6806 Outside
 Press@RunDepth: psig @ 3309.00 ft (KB)
 Start Date: 2017.03.08 End Date: 2017.03.09
 Start Time: 19:46:50 End Time: 02:28:34
 Capacity: 8000.00 psig
 Last Calib.: 2017.03.09
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
 IS: No Blow Back
 FF: Strong Blow , BOB in 4 minutes
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	315 GIP	0.00
120.00	GMCO 10%G 10%M 80%O	1.68
187.00	Oil	2.62

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: Ken LeBlanc

22-20S-11W Barton, KS

Leghorn #1-22

Job Ticket: 63575

DST#: 5

Test Start: 2017.03.08 @ 19:46:49

Tool Information

Drill Pipe:	Length: 3313.00 ft	Diameter: 3.80 inches	Volume: 46.47 bbl	Tool Weight: 2100.00 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: 60000.00 lb
			<u>Total Volume: 46.47 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3308.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3292.00	
Hydraulic tool	5.00			3297.00	
Safety Joint	2.00			3299.00	
Packer	5.00			3304.00	21.00 Bottom Of Top Packer
Packer	4.00			3308.00	
Stubb	1.00			3309.00	
Recorder	0.00	8159	Inside	3309.00	
Recorder	0.00	6806	Outside	3309.00	
Perforations	6.00			3315.00	
Bullnose	3.00			3318.00	10.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N Waterfront Pkwy
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlanc

22-20S-11W Barton,KS
Leghorn #1-22
Job Ticket: 63575 **DST#: 5**
Test Start: 2017.03.08 @ 19:46:49

Mud and Cushion Information

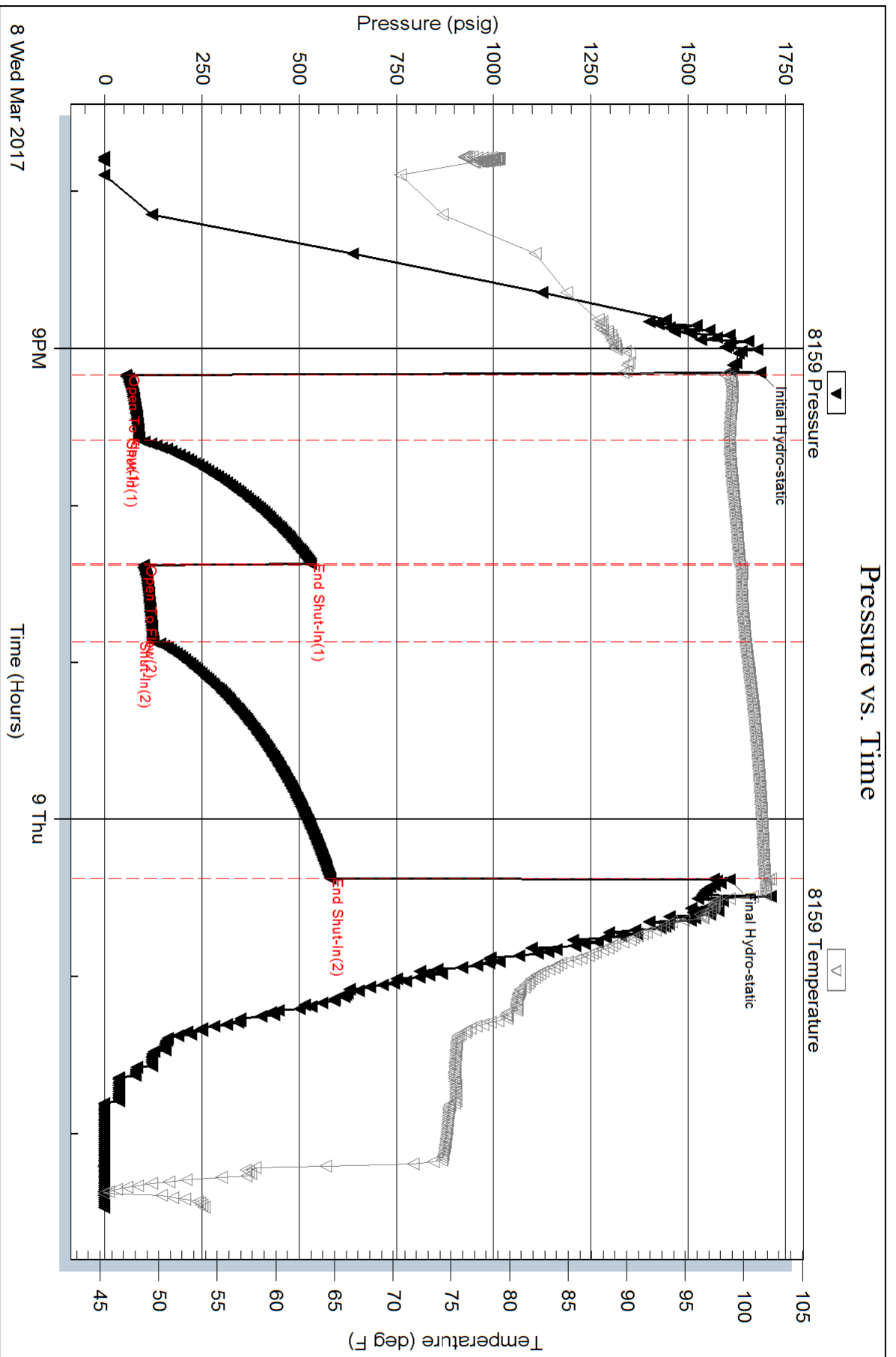
Mud Type: Gel Chem	Cushion Type:	Oil API: 41.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5300.00 ppm		
Filter Cake: 0.02 inches		

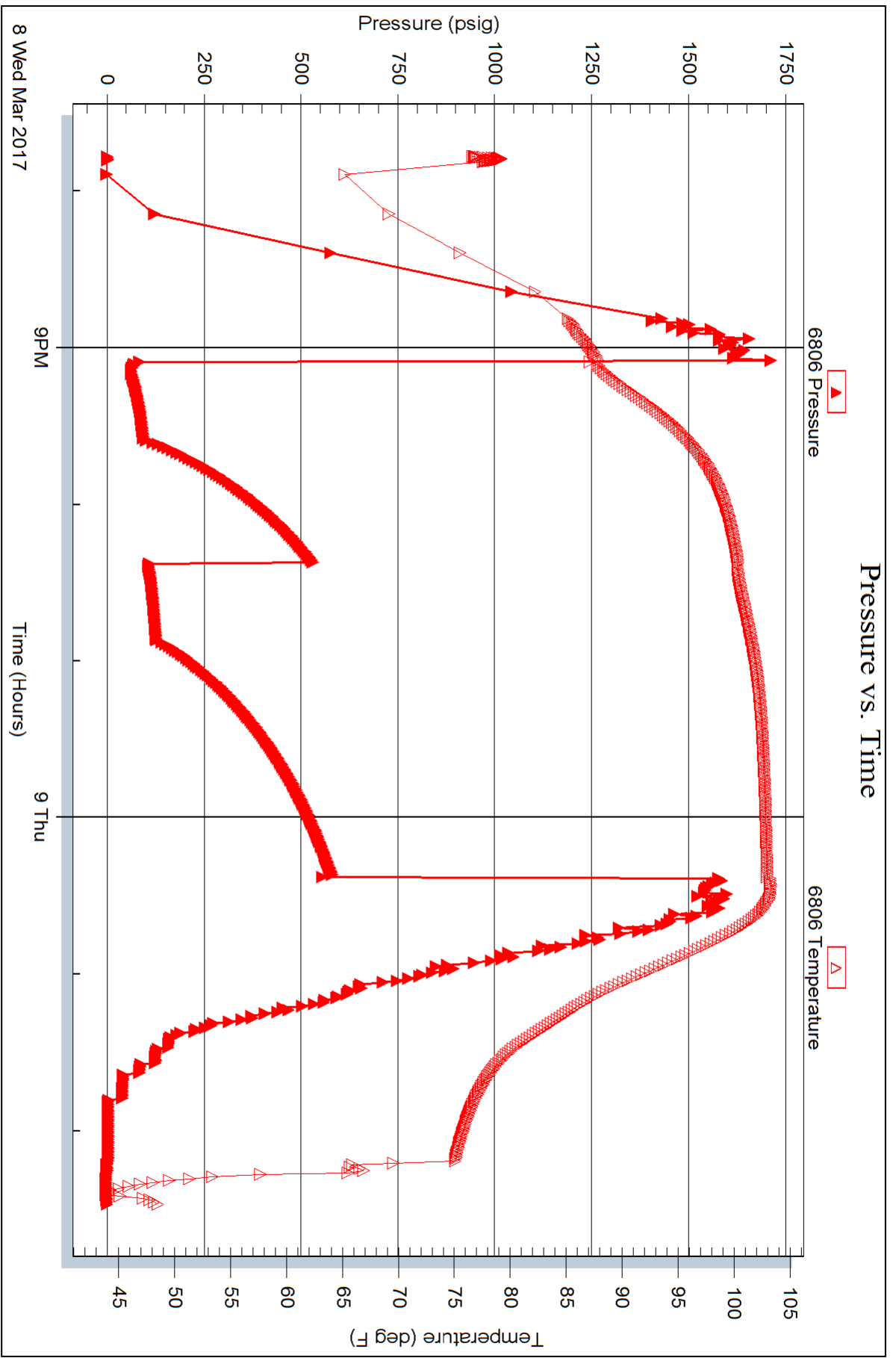
Recovery Information

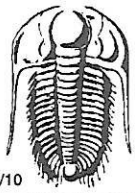
Recovery Table

Length ft	Description	Volume bbl
0.00	315 GIP	0.000
120.00	GMCO 10%G 10%M 80%O	1.683
187.00	Oil	2.623

Total Length: 307.00 ft Total Volume: 4.306 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Gravity w as 40.5 @ 49 degrees







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63571** 23566

Well Name & No. Leghorn 1-22 Test No. 1 Date 03/05/17
 Company CMX inc Elevation 1768 KB 1759 GL
 Address 1700 N. Waterfront Pkwy Bldg 300B Wichita, KS 67206
 Co. Rep / Geo. Ken LeBlanc Rig Duke 2
 Location: Sec. 22 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested ~~3130~~ 3130 - 3140 Zone Tested Lansing "G"
 Anchor Length 10 Drill Pipe Run 3127 Mud Wt. 9.0
 Top Packer Depth 3125 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3130 Wt. Pipe Run 0 WL 7.2
 Total Depth 3140 Chlorides 5300 ppm System LCM

Blow Description IF: Strong Blow, BOB in 30seconds
ISF: 4 inch Blow Back
FF: Strong Blow, BOB in 1 minute, GTS in 22 minutes, caught sample, TSTM
FBI: 5 inch Blow Back

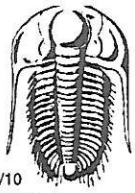
Rec	Feet of	%gas	%oil	%water	%mud
<u>1360</u>	<u>GIP</u>				
<u>3</u>	<u>oil</u>				
<u>63</u>	<u>0 MCW</u>	<u>14</u>	<u>54</u>	<u>32</u>	<u>0</u>
<u>252</u>	<u>0 MCW</u>	<u>10</u>	<u>80</u>	<u>10</u>	<u>0</u>
<u>1449</u>	<u>water</u>				

Rec Total 1767 BHT 101 Gravity NIC API RW .14 @ 55 ° F Chlorides 70000 ppm

(A) Initial Hydrostatic 1552 Test 1050 T-On Location 21:00
 (B) First Initial Flow 84 Jars _____ T-Started 22:08
 (C) First Final Flow 523 Safety Joint 75 T-Open 00:30
 (D) Initial Shut-In 1019 Circ Sub _____ T-Pulled 02:56
 (E) Second Initial Flow 525 Hourly Standby _____ T-Out 05:56
 (F) Second Final Flow 809 Mileage 1109 36rt 27 Comments _____
 (G) Final Shut-In 1028 Sampler _____
 (H) Final Hydrostatic 1528 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1152
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1152

Approved By Ken LeBlanc 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. **63572**

Well Name & No. Leghorn 1-22 Test No. 2 Date 03/06/2017
 Company CMX INC Elevation 1768 KB 1759 GL
 Address 1700 N. Waterfront Pkwy Bldg 300 B Wichita, KS 67206
 Co. Rep / Geo. Ken LeBlanc Rig Duke 2
 Location: Sec. 22 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3172 - 3200 Zone Tested Lansing "H"
 Anchor Length 28 Drill Pipe Run 3158 Mud Wt. 9.0
 Top Packer Depth 3167 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3172 Wt. Pipe Run 0 WL 7.2
 Total Depth 3200 Chlorides 5300 ppm System LCM

Blow Description IF: Strong Blow, BOB in 1 minute
IST: No Blow Back
FF: Strong Blow, BOB in 30 seconds, GTS in 13 minutes, TSTM, caught sample
FSI: 2 inch Blow Back

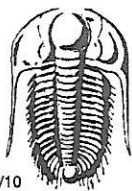
Rec	Feet of	%gas	%oil	%water	%mud
<u>3008</u>	<u>GIP</u>				
<u>30</u>	<u>oil</u>				
<u>120</u>	<u>GWMCO</u>	<u>25</u>	<u>60</u>	<u>5</u>	<u>10</u>

Rec Total 150 BHT 98° Gravity 39.7 API RW NIC @ NIC° F Chlorides NIC ppm

(A) Initial Hydrostatic <u>1597</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>14:15</u>
(B) First Initial Flow <u>34</u>	<input type="checkbox"/> Jars	T-Started <u>14:58</u>
(C) First Final Flow <u>47</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:25</u>
(D) Initial Shut-In <u>940</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:55</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:38</u>
(F) Second Final Flow <u>72</u>	<input checked="" type="checkbox"/> Mileage <u>110</u> <u>27</u>	Comments
(G) Final Shut-In <u>938</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1567</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>30</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>60</u>	<input type="checkbox"/> Day Standby	Total <u>1152</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1152</u>	

Approved By Ken LeBlanc 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. **63573**

Well Name & No. Leghorn 1-22 Test No. 3 Date 03/07/17
 Company CMX inc Elevation 1768 KB 1759 GL
 Address 1700 N. Waterfront PKwy Bldg 300 B Wichita, KS 67206
 Co. Rep / Geo. Ken LeBlanc Rig Duke 2
 Location: Sec. 22 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3260 - 3307 Zone Tested Arbuckle
 Anchor Length 47 Drill Pipe Run 3251 Mud Wt. 9.1
 Top Packer Depth 3255 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3260 Wt. Pipe Run 0 WL 7.6
 Total Depth 3307 Chlorides 8300 ppm System LCM

Blow Description IF: weak Blow Built to 1 3/4 inch
ISI: NO Blow Back
FF: weak Blow Built to 4 1/2 inches, Died off to 2 inches
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>135</u>	<u>GIP</u>				
<u>25</u>	<u>MCO</u>		<u>70</u>		<u>30</u>

Rec Total 25 BHT 97 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1659
 (B) First Initial Flow 84
 (C) First Final Flow 32
 (D) Initial Shut-In 987
 (E) Second Initial Flow 35
 (F) Second Final Flow 45
 (G) Final Shut-In 764
 (H) Final Hydrostatic 1583

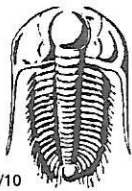
Test 1050
 Jars
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage (1105) 27
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1152

T-On Location 11:30
 T-Started 11:52
 T-Open 13:16
 T-Pulled 16:20
 T-Out 17:49
 Comments
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1152
 MP/DST Disc't

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

Approved By Ken LeBlanc 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. **63574**

Well Name & No. Lehigh 1-22 Test No. 4 Date 03/08/17
 Company CMX inc Elevation 1768 KB 1759 GL
 Address 1700 N. waterfront pkwy Bldg 300B Wichita, KS 67206
 Co. Rep / Geo. Ken LeBlanc Rig Duke 2
 Location: Sec. 22 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3265 - 3312 Zone Tested Arbuckle
 Anchor Length 47 Drill Pipe Run 3251 Mud Wt. 9.1
 Top Packer Depth 3260 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3265 Wt. Pipe Run 0 WL 7.6
 Total Depth 3312 Chlorides 8300 ppm System LCM

Blow Description IF: weak 1/2 inch Blow
ISL: NO Blow Back
EF: weak 2 inch Blow
FSI: NO Blow Back

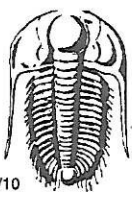
Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>GTP</u>				
<u>30</u>	<u>GOCM</u>	<u>12</u>	<u>24</u>		<u>64</u>

Rec Total 230 BHT 96 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm
 Test 1050 T-On Location 23:30
 Jars _____ T-Started 00:10
 Safety Joint 75 T-Open 01:40
 Circ Sub _____ T-Pulled 06:08
 Hourly Standby _____ T-Out 07:44
 Mileage 1100 27 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1152

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 120

Approved By Ken LeBlanc Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63575**

Well Name & No. Leghorn 1-22 Test No. 5 Date 03/09/17
 Company CMX inc Elevation 1768 KB 1759 GL
 Address 1700 N. Waterfront Pkwy Bldg 300B Wichita, KS 67206
 Co. Rep / Geo. Ken LeBlanc Rig Duke 2
 Location: Sec. 22 Twp. 20S Rge. 11W Co. Duke 2 State _____

Interval Tested 3308 - 3318 Zone Tested Arbuckle
 Anchor Length 10 Drill Pipe Run 3313 Mud Wt. 9.1
 Top Packer Depth 3300 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3308 Wt. Pipe Run 0 WL 7.8
 Total Depth 3318 Chlorides 8500 ppm System LCM _____

Blow Description IF: STRONG BLOW, BOB in 1 minute

ISI: NO BLOW BACK

FF: STRONG BLOW, BOB in 4 minutes

FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>GIP</u>				
<u>187</u>	<u>Oil</u>				
<u>120</u>	<u>GMCO</u>	<u>10%</u>	<u>90%</u>		<u>10%</u>
____	____	%gas	%oil	%water	%mud
____	____	%gas	%oil	%water	%mud

Rec Total 307 BHT 102 Gravity 41.6 API RW NK @ NK °F Chlorides NK ppm

(A) Initial Hydrostatic 1675
 (B) First Initial Flow 55
 (C) First Final Flow 89
 (D) Initial Shut-In 529
 (E) Second Initial Flow 99
 (F) Second Final Flow 125
 (G) Final Shut-In 579
 (H) Final Hydrostatic 1606

Test 1050
 Jars _____
 Safety Joint 75
 Circ Sub _____
 Hourly Standby _____
 Mileage 1102 36rt 27
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1152

T-On Location 19:30
 T-Started 19:46
 T-Open 21:10
 T-Pulled 00:22
 T-Out 02:28
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1152
 MP/DST Disc't _____

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

Approved By Ken LeBlanc

Our Representative _____