





1093624

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

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

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

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

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

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

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**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 06868 A

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

DATE OF JOB: 8-25-2012	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: M & M EXPLORATION INC.		LEASE: Z-BAR		WELL NO.: 4-7					
ADDRESS		COUNTY: BARBER	STATE: KS.						
CITY		STATE							
AUTHORIZED BY		SERVICE CREW: LESLEY, MARQUEZ							
		JOB TYPE: CNW - 4 1/2" L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37586	5						8-25-12	PM	12:00
19889-19843	5					ARRIVED AT JOB		AM	2:00
19831-19862	5					START OPERATION		AM	8:00
						FINISH OPERATION		PM	10:30
						RELEASED		PM	1:15
						MILES FROM STATION TO WELL			65

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
CP 105	AA-2 CMT.	SK	275		4675.00
CP 105	AA-2 CMT.	SK	50		850.00
CC 102	CELLFLAKE	lb	82		303.40
CC 111	SALT	lb	1769		824.50
CC 113	GYPSON	lb	1530		1,147.50
CC 129	FCA-322	lb	245		1,837.50
CC 201	GILSONITE	lb	1950		1,306.50
CF 606	LATCH DOWN PLUG & BAFFLE 4 1/2"	EA	1		370.00
CF 1250	AUTO FILL FLOAT SHOE, 4 1/2"	EA	1		330.00
CF 1650	TURBOXIZER, 4 1/2"	EA	8		680.00
CF 1900	BASKET, 4 1/2"	EA	1		270.00
C 704	CLAYMAX, KCL SOB.	BAL	4		140.00
E 100	PICKUP MILEAGE	MI	65		276.25
E 101	HEAVY EQUIPMENT MILEAGE	MI	130		910.00
E 113	BULK DELIVERY CHARGE	TM	995		1,591.20
CE 205	DEPTH CHARGE, 4001 - 5000'	HR	1-4		2,520.00
CE 240	BLENDING SERVICE CHARGE	SK	325		455.00
CE 504	PLUG CONTAINER CHARGE	WB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
SUB TOTAL					14,228.89
DLS					

CHEMICAL / ACID DATA:			

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

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





## DRILL STEM TEST REPORT

Prepared For: **M & M Exploration**

4257 Main St # 230  
Westminster, CO 80031

ATTN: Beth Brock

### **Z-Bar #4-7**

### **4-34s-15w Barber,KS**

Start Date: 2012.08.22 @ 08:08:59

End Date: 2012.08.22 @ 14:36:44

Job Ticket #: 49562                      DST #: 1

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

Printed: 2012.08.24 @ 16:13:56









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

M & M Exploration  
4257 Main St # 230  
Westminster, CO 80031  
ATTN: Beth Brock

**4-34s-15w Barber,KS**  
**Z-Bar #4-7**  
Job Ticket: 49562      **DST#: 1**  
Test Start: 2012.08.22 @ 08:08:59

**Tool Information**

Drill Pipe:	Length: 4488.00 ft	Diameter: 3.80 inches	Volume: 62.95 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 62.95 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	4485.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	66.00 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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Shut In Tool	5.00			4463.00	
Hydraulic tool	5.00			4468.00	
Jars	5.00			4473.00	
Safety Joint	2.00			4475.00	
Packer	5.00			4480.00	27.00      Bottom Of Top Packer
Packer	5.00			4485.00	
Stubb	1.00			4486.00	
Recorder	0.00	6798	Inside	4486.00	
Recorder	0.00	8367	Outside	4486.00	
Perforations	2.00			4488.00	
Change Over Sub	1.00			4489.00	
Drill Pipe	31.00			4520.00	
Change Over Sub	1.00			4521.00	
Bullnose	3.00			4524.00	39.00      Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

M & M Exploration  
4257 Main St # 230  
Westminster, CO 80031  
ATTN: Beth Brock

**4-34s-15w Barber,KS**  
**Z-Bar #4-7**  
Job Ticket: 49562      **DST#: 1**  
Test Start: 2012.08.22 @ 08:08:59

## Mud and Cushion Information

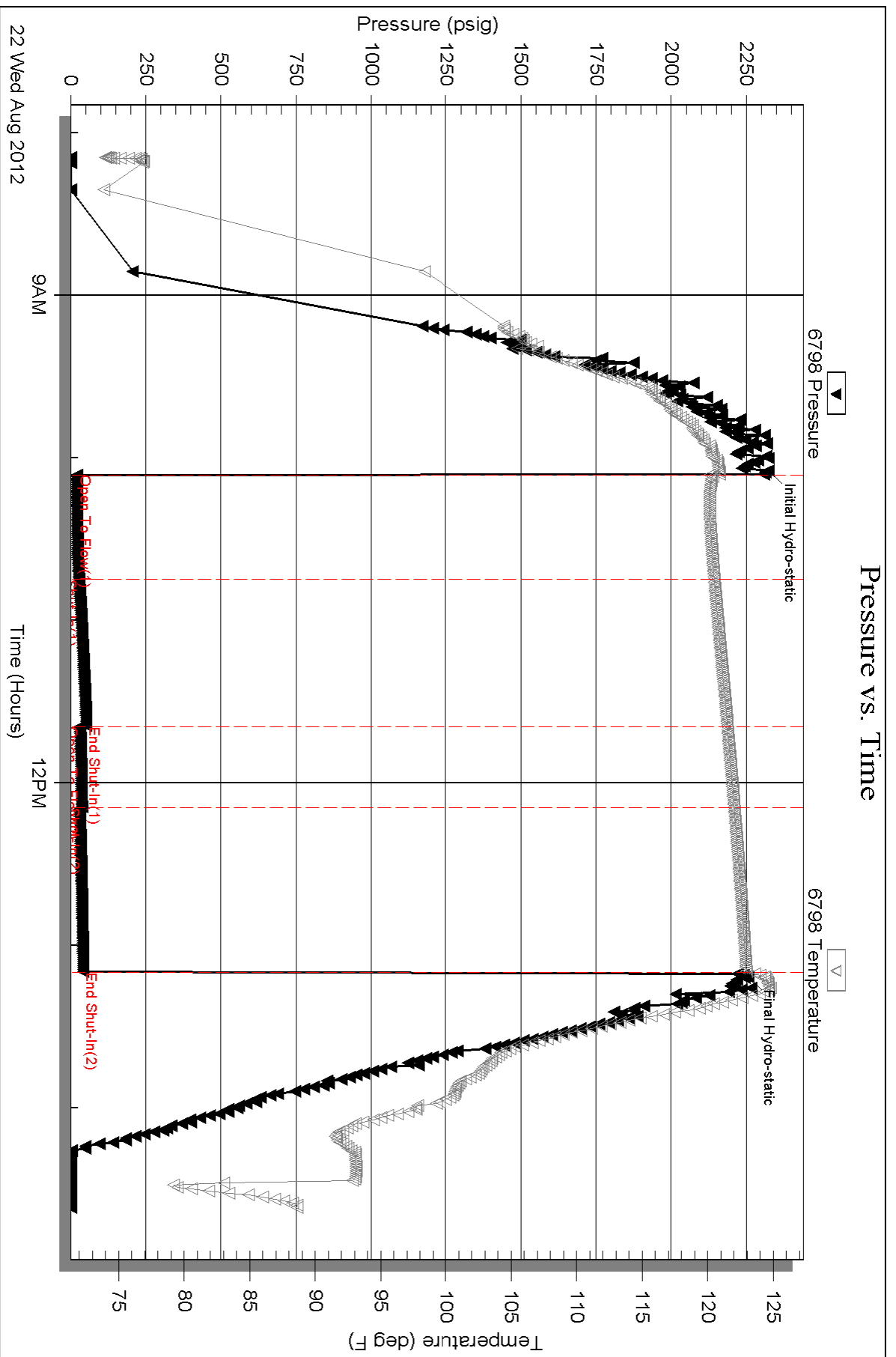
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



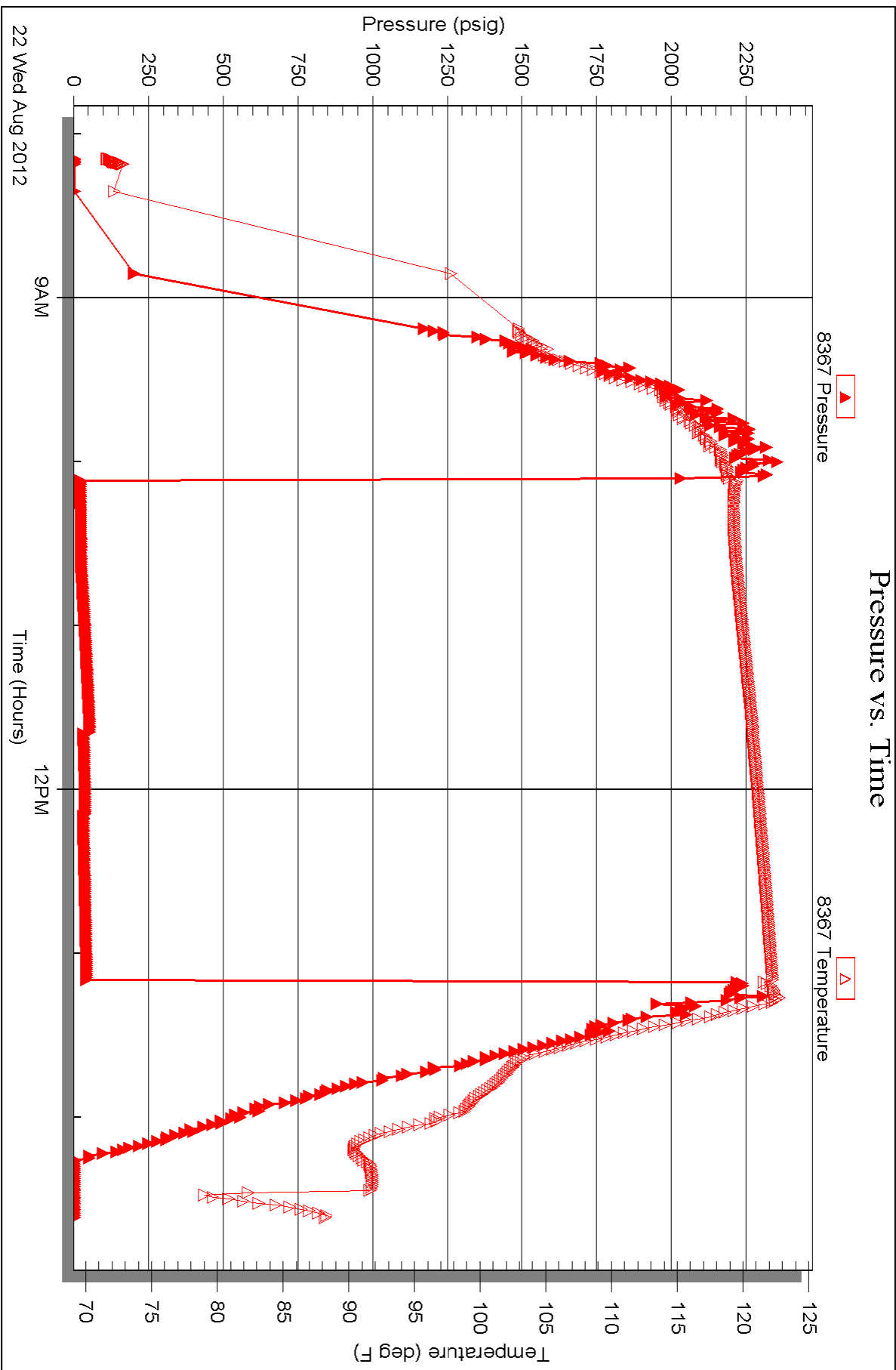
Serial #: 8367

Outside

M & M Exploration

Z-Bar #4-7

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49562

4/10

Well Name & No. Z-Bar 4-7 Test No. 1 Date 08/22/12  
 Company M+M Exploration Elevation 1647 KB 1635 GL  
 Address 4257 Main St # 230 Westminster, CO 80031  
 Co. Rep / Geo. Beth Brock Rig Southwind 70  
 Location: Sec. 4 Twp. 34S Rge. 15W Co. Barber State KS

Interval Tested 4485 - 4524 Zone Tested Hertha  
 Anchor Length 39 Drill Pipe Run 4488 Mud Wt. 9.3  
 Top Packer Depth 4480 Drill Collars Run 0 Vis. 44  
 Bottom Packer Depth 4485 Wt. Pipe Run 0 WL 10.0  
 Total Depth 4524 Chlorides 5000 ppm System LCM 4

Blow Description IF: weak surface Blow

ISI: no Blow Back

FF: NO BLOW

FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>2</u>	BHT <u>123</u>	Gravity <u>NIC</u>	API RW <u>NIC</u>	@ <u>NIC</u> °F	Chlorides <u>NIC</u> ppm

(A) Initial Hydrostatic 2324  Test 1250 T-On Location 03:30  
 (B) First Initial Flow 21  Jars 250 T-Started 08:08  
 (C) First Final Flow 28  Safety Joint 75 T-Open 10:06  
 (D) Initial Shut-In 52  Circ Sub T-Pulled 13:09  
 (E) Second Initial Flow 30  Hourly Standby 1 100 T-Out 14:36  
 (F) Second Final Flow 37  Mileage 130M 201.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 42  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2255  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1876.50 Sub Total 0  
 Total 1876.50 MP/DST Disc't \_\_\_\_\_

Approved By Beth Brock 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.

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 09, 2012

Michael Austin  
M & M Exploration, Inc.  
4257 MAIN ST., #230  
WESTMINSTER, CO 80031

Re: ACO1  
API 15-007-23913-00-00  
Z Bar 4-7  
NE/4 Sec.04-34S-15W  
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Michael Austin