



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1100458  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1100458

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  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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Q-R 1-17
Doc ID	1100458

Tops

Name	Top	Datum
Stone Corral	2235	+417
Bs/Stone Corral	2275	+377
Heebner	3878	-1226
Lansing	3918	-1266
Muncie Creek	4042	-1390
Stark	4112	-1460
Marmaton	4199	-1547
Excello	4413	-1761
Mississippian	4486	-1834
LTD	4669	



# ALLIED OIL & GAS SERVICES, LLC 058792

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Quakley

DATE <u>10/7/12</u>	SEC. <u>19</u>	TWP. <u>11</u>	RANGE <u>2-6</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>9:00</u>
LEASE <u>RR</u>	WELL # <u>1-17</u>	LOCATION <u>Quakley IN LEAN</u>			COUNTY <u>W. COE</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one)		<u>W. COE</u>			1.03		8.05 all

CONTRACTOR Martin B  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D.  
 CASINO SIZE 8 7/8 DEPTH 202'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOBJOINT  
 CEMENT LEFT IN CSO.  
 PERFS.  
 DISPLACEMENT

OWNER Same  
 CEMENT AMOUNT ORDERED 820 SK, 60/40 40 gal  
14 FLO  
 COMMON 132 @ 17.24 2362.80  
 POZMIX 88 @ 9.25 822.00  
 GEL 8 @ 23.20 187.20  
 CHLORIDE @  
 ASC @  
FLO Sand 55.16 @ 2.92 163.25  
 HANDLING 236.25 @ 2.44 585.92  
 MILBAGE 202.00 @ 9.866 2020.00  
 TOTAL 5180.18

EQUIPMENT  
 PUMP TRUCK CEMENTER Alan Ryan  
 # 422 HELPER Wayne McGibney  
 BULK TRUCK  
 # 404 DRIVER Thomas (TLO)  
 BULK TRUCK DRIVER

REMARKS:  
25 SK @ 20.5  
100 SK @ 19.5  
40 SK @ 21.5  
10 SK @ 40  
15 SK @ Main Hole  
30 SK @ Red Hole  
The Above  
Run with 10m

CHARGE TO: Grand Mesa  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 5180.18  
394.63  
 SERVICE  
 DEPTH OF JOB 2055'  
 PUMP TRUCK CHARGE 2483.59  
 EXTRA FOOTAGE @  
 MILBAGE 40 @ 5.20 308.00  
 MANIFOLD @  
late vehicle 40 @ 4.40 176.00  
 TOTAL 8767.59

PLUG & FLOAT EQUIPMENT  
wooden Plug @ 107.00  
 @  
 @  
 @  
 TOTAL 107.00  
 SALES TAX (If Any) 661.98  
 TOTAL CHARGES 8,223.41  
 DISCOUNT 2672.60 IF PAID IN 30 DAYS  
32,570

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.  
 PRINTED NAME Rodney Farr  
 SIGNATURE Rodney Farr



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Grand Mesa Operating Co.

**17-11s-26w-Gove**

1700 N. Waterfront Parkway  
 Building 600  
 Wichita, KS. 67206  
 ATTN:

**QR #1-17**

Job Ticket: 48705

**DST#: 1**

Test Start: 2012.10.13 @ 10:45:52

## GENERAL INFORMATION:

Formation: **C**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 12:32:52  
 Time Test Ended: 16:33:07  
 Interval: **3934.00 ft (KB) To 3960.00 ft (KB) (TVD)**  
 Total Depth: 3960.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 2652.00 ft (KB)  
 2647.00 ft (CF)  
 KB to GR/CF: 5.00 ft

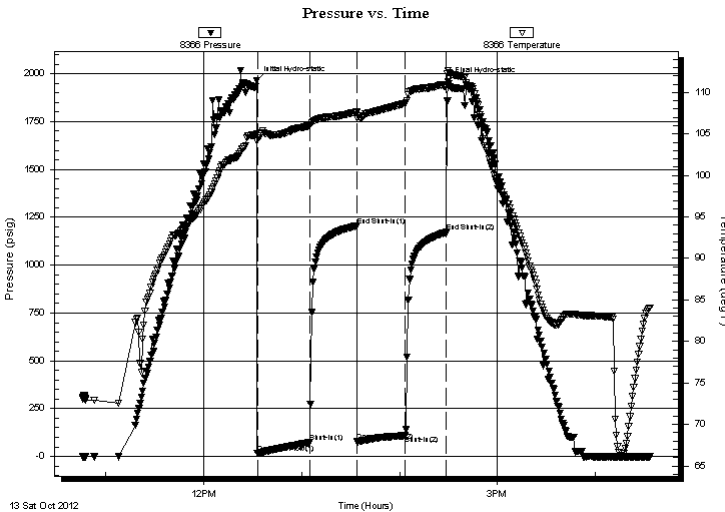
## Serial #: 8366

Inside

Press @ Run Depth: 108.87 psig @ 3937.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.10.13 End Date: 2012.10.13 Last Calib.: 2012.10.13  
 Start Time: 10:45:54 End Time: 16:33:07 Time On Btm: 2012.10.13 @ 12:32:37  
 Time Off Btm: 2012.10.13 @ 14:29:37

TEST COMMENT: IFP-Weak Blow , Built to 2"  
 ISI-Dead  
 FFP-Weak Blow , Built to 2"  
 FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.99	105.05	Initial Hydro-static
1	16.32	104.18	Open To Flow (1)
33	75.00	106.00	Shut-In(1)
61	1205.02	107.64	End Shut-In(1)
62	76.88	106.98	Open To Flow (2)
91	108.87	108.71	Shut-In(2)
116	1171.46	110.83	End Shut-In(2)
117	1958.60	112.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
195.00	MW W/Oil Scum	1.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Grand Mesa Operating Co.

**17-11s-26w-Gove**

1700 N. Waterfront Parkway  
Building 600  
Wichita, KS. 67206  
ATTN:

**QR #1-17**

Job Ticket: 48705

**DST#: 1**

Test Start: 2012.10.13 @ 10:45:52

### Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	24000 ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
195.00	MW W/Oil Scum	1.041

Total Length: 195.00 ft      Total Volume: 1.041 bbl

Num Fluid Samples: 0

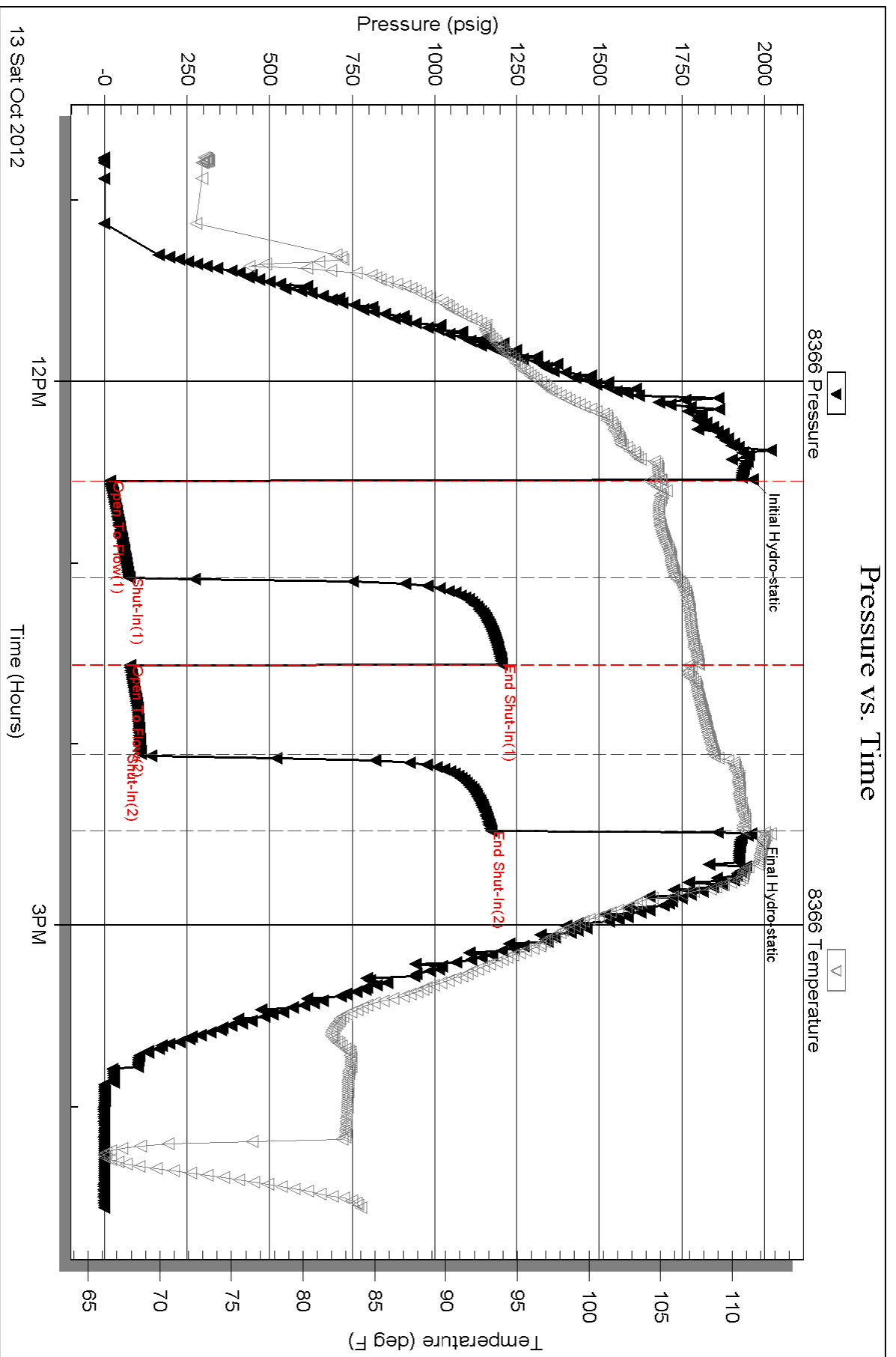
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Grand Mesa Operating Co.

**17-11s-26w-Gove**

1700 N. Waterfront Parkway  
 Building 600  
 Wichita, KS. 67206  
 ATTN: Bob Schreiber

**QR #1-17**

Job Ticket: 48706

**DST#: 2**

Test Start: 2012.10.14 @ 05:40:35

## GENERAL INFORMATION:

Formation: **H**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 08:12:05  
 Time Test Ended: 12:10:35  
 Interval: **4036.00 ft (KB) To 4064.00 ft (KB) (TVD)**  
 Total Depth: 4064.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 2652.00 ft (KB)  
 2647.00 ft (CF)  
 KB to GR/CF: 5.00 ft

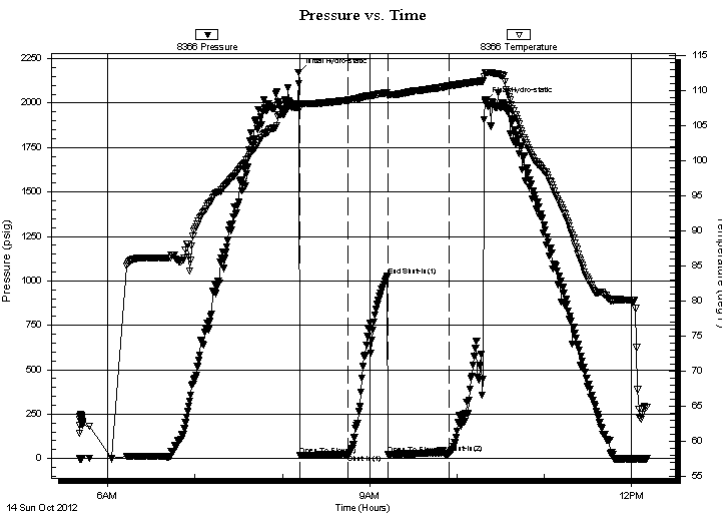
## Serial #: 8366

Inside

Press @ Run Depth: 23.05 psig @ 4041.00 ft (KB)  
 Start Date: 2012.10.14 End Date: 2012.10.14  
 Start Time: 05:40:37 End Time: 12:10:35  
 Capacity: 8000.00 psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2012.10.14 @ 08:11:05  
 Time Off Btm: 2012.10.14 @ 10:19:50

TEST COMMENT: IFP-Weak Surface Blow, Died in 10 Min.  
 ISI-Dead  
 FFP-Dead  
 FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.05	108.17	Initial Hydro-static
1	19.34	107.50	Open To Flow (1)
34	23.05	108.62	Shut-In(1)
62	1026.26	109.69	End Shut-In(1)
62	25.37	109.27	Open To Flow (2)
104	28.80	110.69	Shut-In(2)
129	2006.92	112.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drilling Mud	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating Co.

**17-11s-26w-Gove**

1700 N. Waterfront Parkway  
Building 600  
Wichita, KS. 67206  
ATTN: Bob Schreiber

**QR #1-17**

Job Ticket: 48706

**DST#: 2**

Test Start: 2012.10.14 @ 05:40:35

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 7.60 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Drilling Mud	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

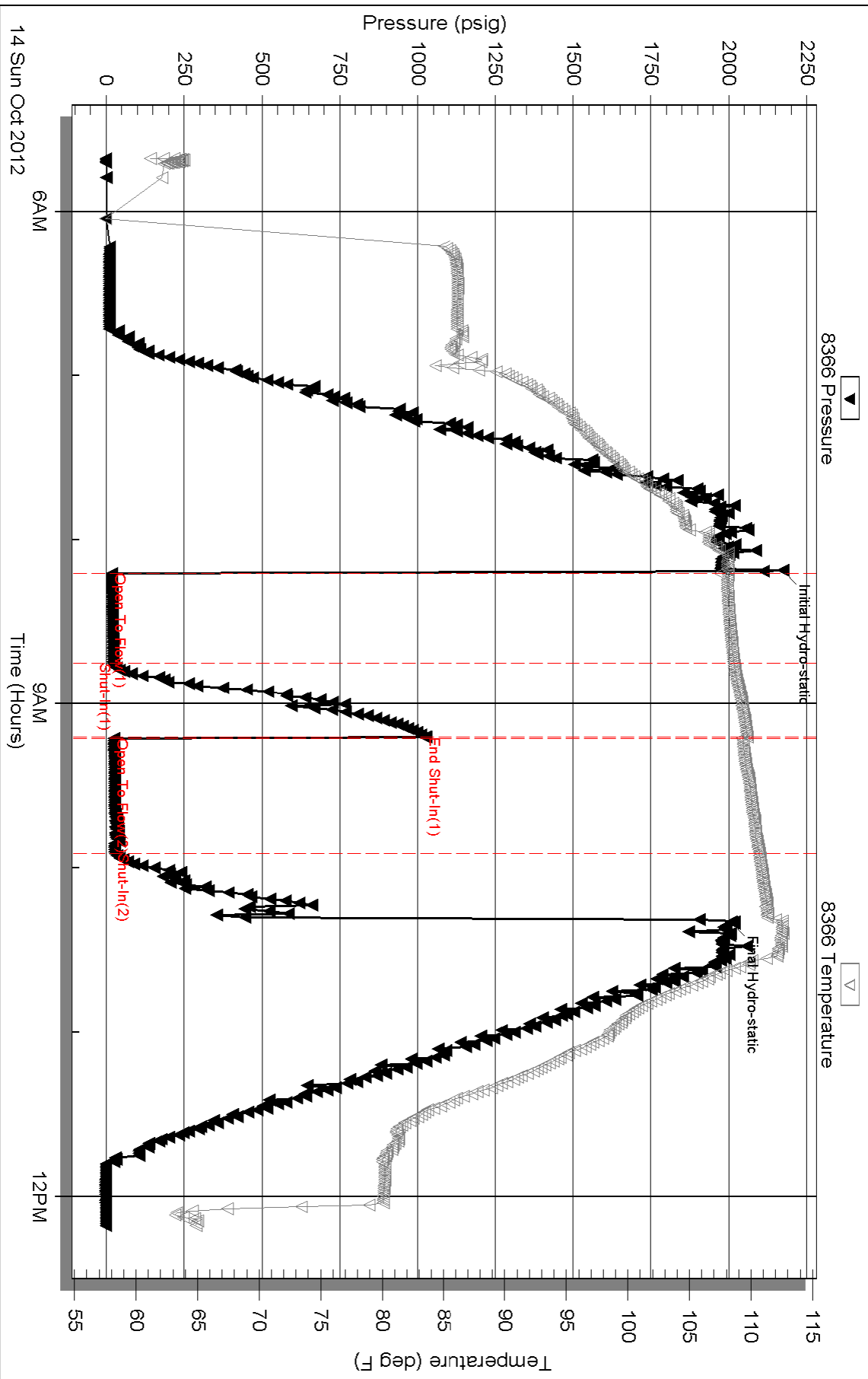
Serial #:

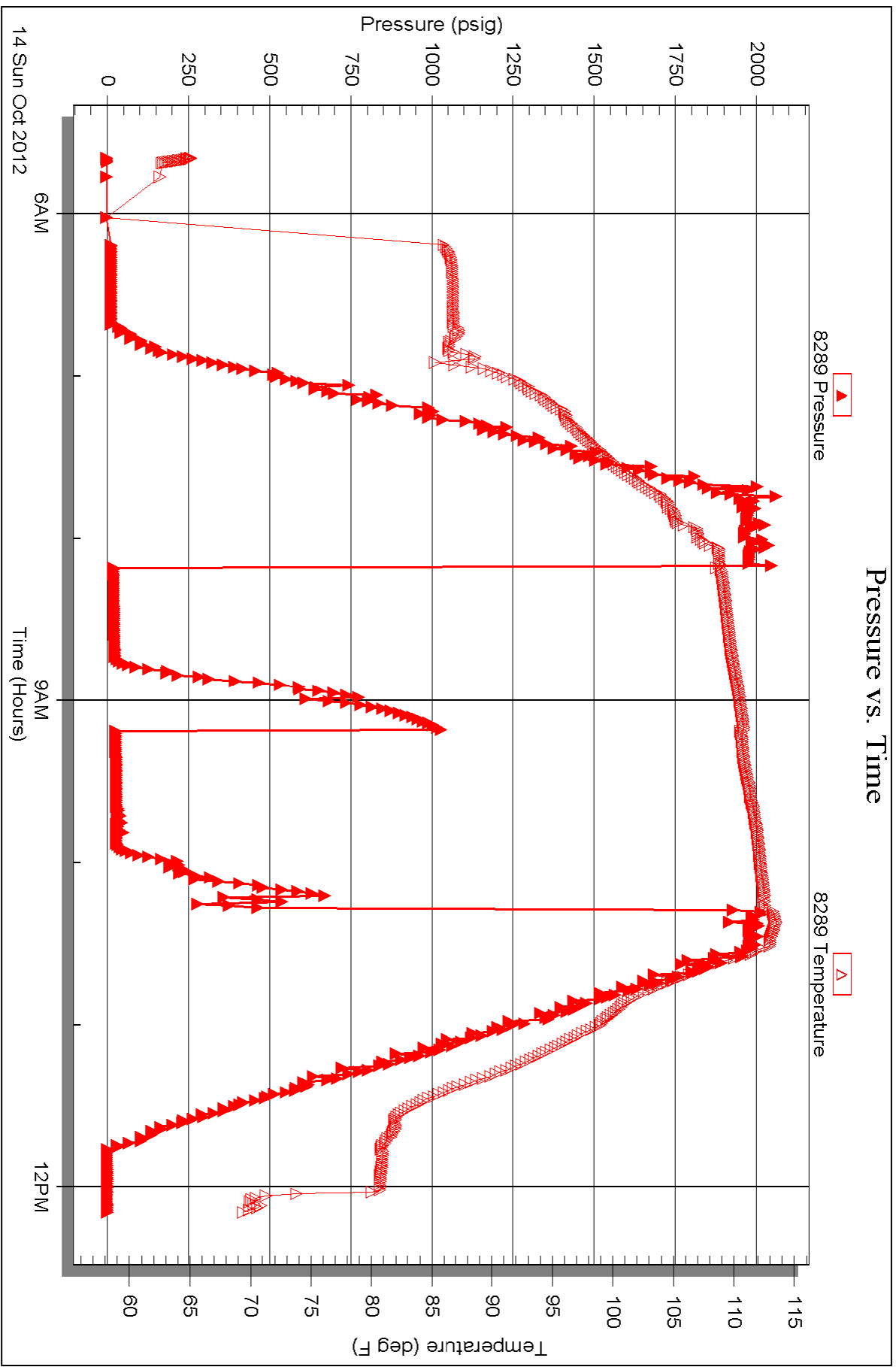
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Grand Mesa Operating Co.

**17-11s-26w-Gove**

1700 N. Waterfront Parkway  
Building 600  
Wichita, KS. 67206  
ATTN: Bob Schreiber

**QR #1-17**

Job Ticket: 48707

**DST#: 3**

Test Start: 2012.10.14 @ 19:40:03

## GENERAL INFORMATION:

Formation: **H-I**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 21:43:11  
 Time Test Ended: 03:50:11  
 Interval: **4035.00 ft (KB) To 4092.00 ft (KB) (TVD)**  
 Total Depth: 4092.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 2652.00 ft (KB)  
 2647.00 ft (CF)  
 KB to GR/CF: 5.00 ft

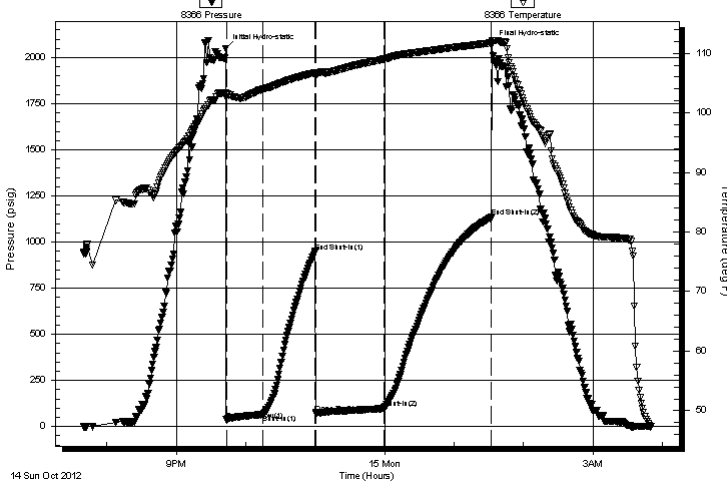
## Serial #: 8366

Inside

Press @ Run Depth: 97.66 psig @ 4074.00 ft (KB)  
 Start Date: 2012.10.14 End Date: 2012.10.15  
 Start Time: 19:40:05 End Time: 03:50:11  
 Capacity: 8000.00 psig  
 Last Calib.: 2012.10.15  
 Time On Btm: 2012.10.14 @ 21:42:41  
 Time Off Btm: 2012.10.15 @ 01:32:41

TEST COMMENT: IFP-Weak Blow , Built to 4"  
 ISI-Dead  
 FFP-Weak Blow , Built to 3"  
 FSI-Dead

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.83	103.35	Initial Hydro-static
1	35.89	102.65	Open To Flow (1)
33	65.37	103.99	Shut-In(1)
78	948.48	106.73	End Shut-In(1)
79	73.46	106.44	Open To Flow (2)
137	97.66	108.99	Shut-In(2)
230	1133.89	111.72	End Shut-In(2)
230	2070.04	112.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	Oil Cut Mud-35%O-65%M	0.61

## Gas Rates

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

\* Recovery from multiple tests



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating Co.

**17-11s-26w-Gove**

1700 N. Waterfront Parkway  
Building 600  
Wichita, KS. 67206  
ATTN: Bob Schreiber

**QR #1-17**

Job Ticket: 48707

**DST#: 3**

Test Start: 2012.10.14 @ 19:40:03

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.79 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Oil Cut Mud-35%O-65%M	0.615

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

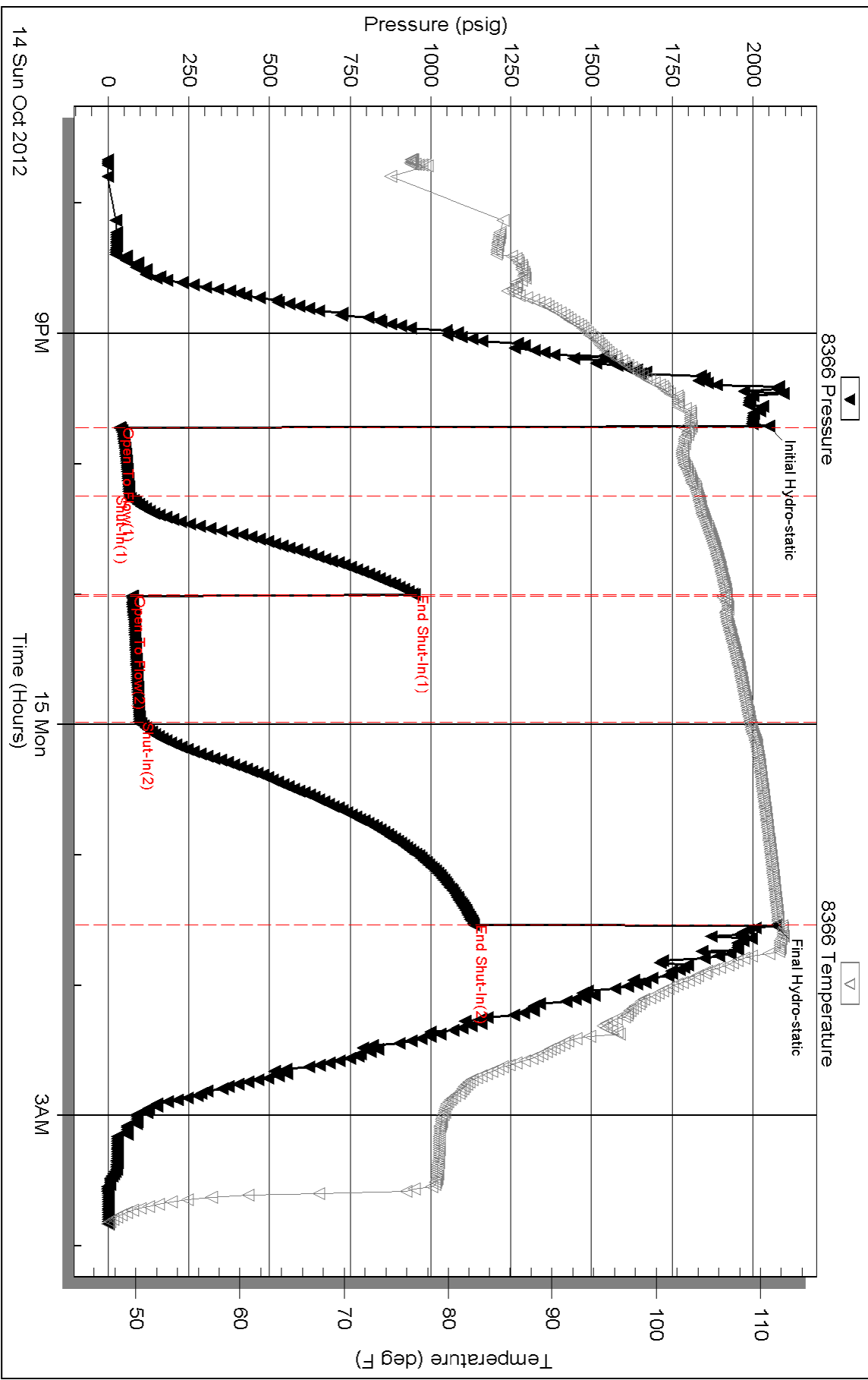
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





(316) 265-3000  
FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY  
BLDG. 600  
WICHITA, KANSAS 67208-5514

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Q-R # 1-17  
Location: 2598' FNL, 2087' FEL, Section 17-11S-26W Gove County, KS  
License Number: API: 15-063-22048  
Spud Date: 10-9-12  
Surface Coordinates: Lat: 39.0964511  
Bottom Hole Coordinates: Long: -100.2297596  
Vertical hole

Ground Elevation (ft): 2647'      K.B. Elevation (ft): 2652'  
Logged Interval (ft): 3600'      To: RTD      Total Depth (ft): 4669'  
Formation: Mississippian at RTD  
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### GEOLOGIST

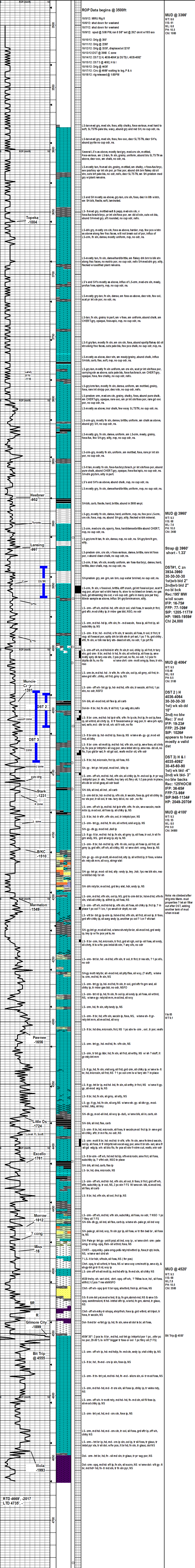
Name: Steven P Carl/Bob Schrieber  
Company: Independent  
Address: 268 NE 220 Rd  
Hoisington, KS 67544

### COMMENTS

Contractor: Murfin Drilling Company Rig #8  
Pusher: Rodney Farr  
Surface Casing: 8 5/8" set at 262' w/185sx  
Production Casing: none  
Mud by: MudCo  
DST's by: Tribolite Testing  
Logs by: Weatherford (DIL, CN-CD, ML)  
RTD=47'  
LTD=4'

### FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2235'	+417	2235'	+417
B/Stone Corral	2276'	+376	2275'	+377
Topeka	3667'	-1015	3664'	-1012
Heebner Shale	3878'	-1226	3778'	-1266
Lansing	3919'	-1267	3918'	-1266
Muncie Creek Shale	4043'	-1391	4042'	-1390
Stark Shale	4112'	-1460	4112'	-1460
BKC	4162'	-1510	4162'	-1510
Marmaton	4201'	-1549	4200'	-1548
Pawnee	4308'	-1656	4312'	-1666
Little Osage Shale	4376'	-1724	4378'	-1726
Excello Shale	4413'	-1761	4412'	-1760
Mississippian	4484'	-1832	4488'	-1836
Gilmore City	4551'	-1899	4554'	-1902
Viola	4648'	-1996	4646'	-1994
TD	4669'	-2017	4669'	-2017



Note: vis climbed after drig into Marm. mud properties? let air filter out after DST, adding another tank of mud when mixed

Bit Trip @ 4555'



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

Ronald N. Sinclair  
Grand Mesa Operating Company  
1700 N WATERFRONT PKWY BLDG 600  
WICHITA, KS 67206-5514

Re: ACO1  
API 15-063-22048-00-00  
Q-R 1-17  
NE/4 Sec.17-11S-26W  
Gove 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,  
Ronald N. Sinclair