



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1233510  
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: \_\_\_\_\_

1233510

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 710

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-8-14	22	11	19	Ellis	KS		3:00 AM

Location *Yocemento N to Riverview Rd 1/2 E Sinter*

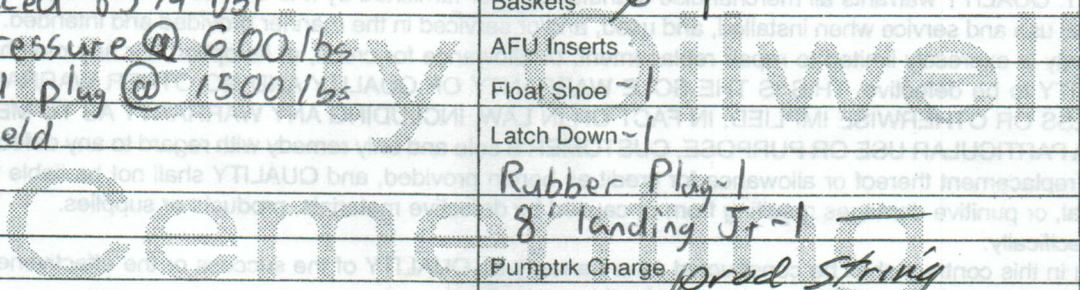
Lease <i>M.R. Allen</i>	Well No. <i># 15</i>	Owner
Contractor <i>WW #4</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <i>Production String</i>		Charge To <i>Mustang Energy</i>
Hole Size <i>7 7/8</i>	T.D. <i>3543'</i>	Street
Csg. <i>5 1/2</i>	Depth <i>3541'</i>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>42.43'</i>	Shoe Joint <i>42.43'</i>	Cement Amount Ordered <i>200 com 10% Salt 5% Gilsnit</i>
Meas Line	Displace <i>83 1/4 bbl</i>	

**EQUIPMENT**

Pumptrk <i>5</i>	No.	Cementer <i>David</i>	Common <i>200</i>
Bulktrk <i>9</i>	No.	Driver <i>Lonnie M</i>	Poz. Mix
Bulktrk <i>Pu</i>	No.	Driver <i>Brett</i>	Gel.
			Calcium

**JOB SERVICES & REMARKS**

Remarks: <i>Cemented 8'fr landing Jr</i>	Hulls
Rat Hole - <i>30sx</i>	Salt <i>17</i>
Mouse Hole - <del>30sx</del>	Flowseal
Centralizers - <i>1, 2, 3, 5, 7, 9</i>	Kol-Seal <i>1000#</i>
Baskets - <i>2</i>	Mud CLR 48 - <i>500 Gal Mud Flush</i>
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <i>277</i>
<i>Ran 3541' 5 1/2 + Est cir</i>	Mileage <i>5 1/2</i>
<i>Mix 500 Gal Mud Flush</i>	<b>FLOAT EQUIPMENT</b>
<i>Plugged Rat + <del>Mouse</del> hole</i>	Guide Shoe
<i>Mixed 180sx down 5 1/2</i>	Centralizer - <i>1 6</i>
<i>Displaced 83 1/4 bbl</i>	Baskets - <i>1 1</i>
<i>Lift pressure @ 600 lbs</i>	AFU Inserts
<i>Landed plug @ 1500 lbs</i>	Float Shoe - <i>1</i>
<i>Plug held</i>	Latch Down - <i>1</i>
	Rubber Plug - <i>1</i>
	<i>8' landing Jr - 1</i>
	Pumptrk Charge <i>prod string</i>
	Mileage



X Signature *Rd Bai*

Tax
Discount
Total Charge

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 664

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-2-14	22	11	19	Ellis	Ks		1:15 PM

Location Yocemento, N to Riverview Rd, 1/4 E, Sn 2

Lease M.R. Allen Well No. 15 Owner

Contractor WW To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Surface Charge To Mustang Energy

Hole Size 12 1/4 T.D. 1243' Depth 1245' Street

Csg. 8 5/8 Depth City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Amount Ordered 450 sx com 3% cc, 2% gel

Cement Left in Csg. Shoe Joint 15' Cement Amount Ordered 450 sx com 3% cc, 2% gel

Meas Line Displace 78661 1/4 # Flow Common 450

**EQUIPMENT** Poz. Mix

Pumptrk 17 No. Cementer Lonnie W Driver Dug Gel. 9

Bulktrk No. Driver Travis Calcium 16

Bulktrk PU No. Driver Travis Hulls

**JOB SERVICES & REMARKS** Salt

Remarks: Cement did circulate Flowseal 106

Rat Hole Kol-Seal

Mouse Hole Mud CLR 48

Centralizers CFL-117 or CD110 CAF 38

Baskets Sand

D/V or Port Collar Handling 475 Mileage

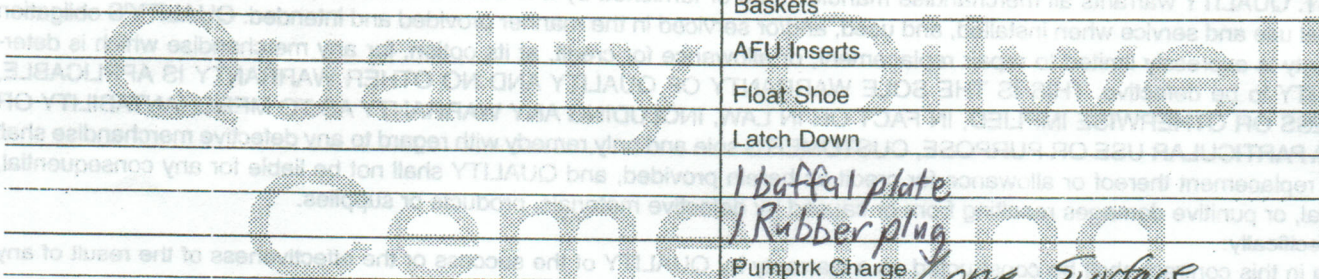
**FLOAT EQUIPMENT**

Guide Shoe Centralizer 3 Baskets AFU Inserts Float Shoe Latch Down

1 buffal plate  
1 Rubber plug  
Pumptrk Charge Long Surface  
Mileage 17

Tax	
Discount	
Total Charge	

X Signature Mal Borge





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19, Ellis, KS

PO Box 1121  
Hays KS 67601

**M.R. Allen well #15**

Job Ticket: 60936

**DST#: 1**

ATTN: Steve Reed

Test Start: 2014.10.05 @ 23:45:00

## GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:04:15

Time Test Ended: 09:49:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3400.00 ft (KB) To 3478.00 ft (KB) (TVD)**

Reference Elevations: 1951.00 ft (KB)

Total Depth: 3478.00 ft (KB) (TVD)

1946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8934 Inside**

Press@RunDepth: 79.37 psig @ 3401.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.05

End Date: 2014.10.06

Last Calib.: 2014.10.06

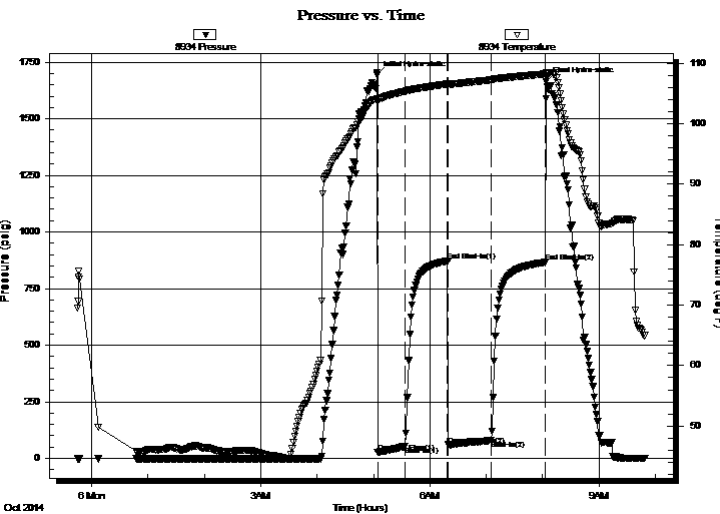
Start Time: 23:45:05

End Time: 09:49:15

Time On Btm: 2014.10.06 @ 05:03:45

Time Off Btm: 2014.10.06 @ 08:04:00

TEST COMMENT: IF-3in blow  
IS-No blow  
FF-2in blow  
FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.79	104.20	Initial Hydro-static
1	25.66	103.61	Open To Flow (1)
30	52.14	105.34	Shut-In(1)
75	871.65	106.55	End Shut-In(1)
76	59.70	106.35	Open To Flow (2)
122	79.37	107.23	Shut-In(2)
180	865.64	108.22	End Shut-In(2)
181	1664.51	108.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOCM 10%O 90%M	0.32
100.00	VSGO 5%G 95%O	0.90

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mustang Energy Corp

22-11-19, Ellis, KS

PO Box 1121  
Hays KS 67601

**M.R. Allen well #15**

Job Ticket: 60936

**DST#: 1**

ATTN: Steve Reed

Test Start: 2014.10.05 @ 23:45:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	SOCM 10%O 90%M	0.320
100.00	VSGO 5%G 95%O	0.902

Total Length: 165.00 ft

Total Volume: 1.222 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

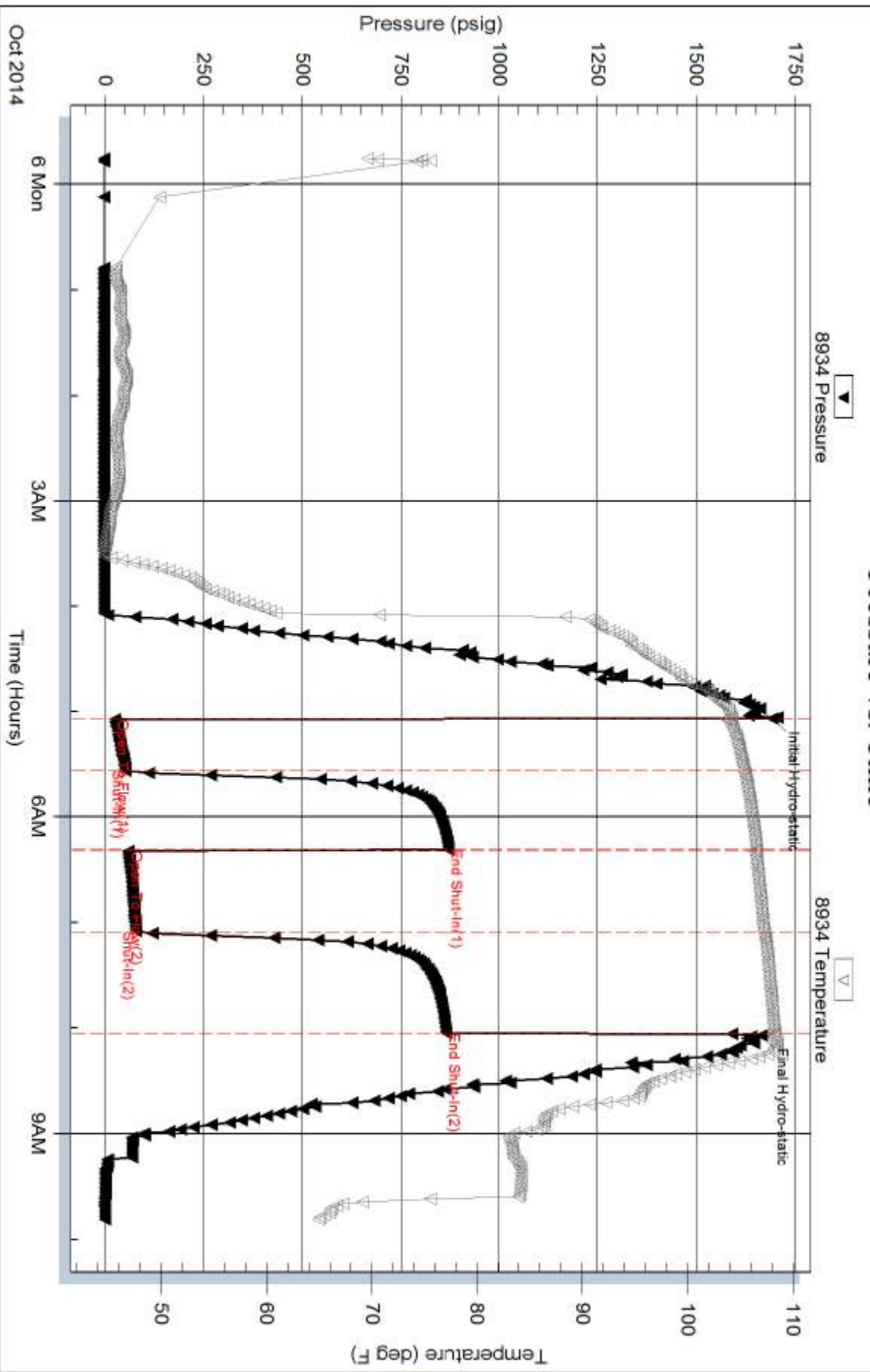
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19, Ellis, KS

PO Box 1121  
Hays KS 67601

**M.R. Allen well #15**

Job Ticket: 60937

**DST#: 2**

ATTN: Steve Reed

Test Start: 2014.10.06 @ 15:05:00

## GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:06:00

Time Test Ended: 21:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3478.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Reference Elevations: 1951.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

1946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8934 Inside**

Press@RunDepth: 181.75 psig @ 3479.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.06

End Date:

2014.10.06

Last Calib.: 2014.10.06

Start Time: 15:05:05

End Time:

21:39:29

Time On Btm: 2014.10.06 @ 17:05:30

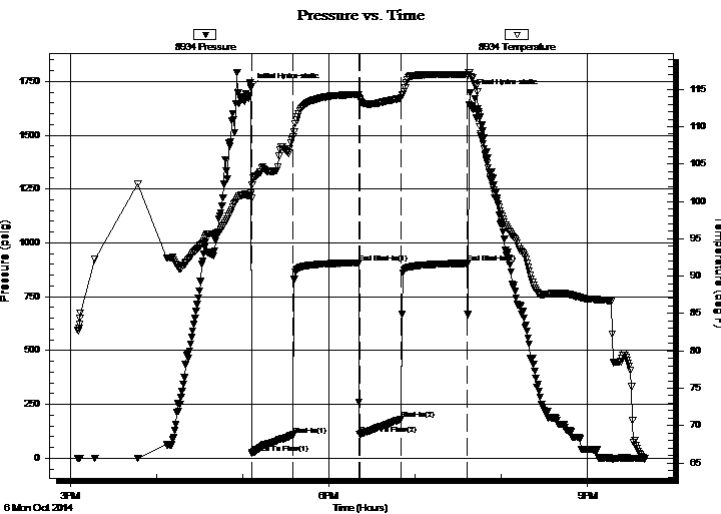
Time Off Btm: 2014.10.06 @ 19:38:00

TEST COMMENT: IF-BOB in 18 1/2min

ISI-No blow

FF-BOB in 20min

FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.81	101.08	Initial Hydro-static
1	22.59	100.42	Open To Flow (1)
30	108.56	108.66	Shut-In(1)
75	907.06	114.30	End Shut-In(1)
76	111.71	113.76	Open To Flow (2)
105	181.75	113.87	Shut-In(2)
151	904.78	116.96	End Shut-In(2)
153	1695.06	117.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	VSMCW 5%M 95%W	1.50
130.00	VSOCW 5%O 95%W	1.82
100.00	VSGO 5%G 95%O	1.40
0.00	120ft GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mustang Energy Corp

**22-11-19, Ellis, KS**

PO Box 1121  
Hays KS 67601

**M.R. Allen well #15**

Job Ticket: 60937

**DST#: 2**

ATTN: Steve Reed

Test Start: 2014.10.06 @ 15:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	VSMCW 5%M 95%W	1.502
130.00	VSOCW 5%O 95%W	1.824
100.00	VSGO 5%G 95%O	1.403
0.00	120ft GIP	0.000

Total Length: 415.00 ft

Total Volume: 4.729 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

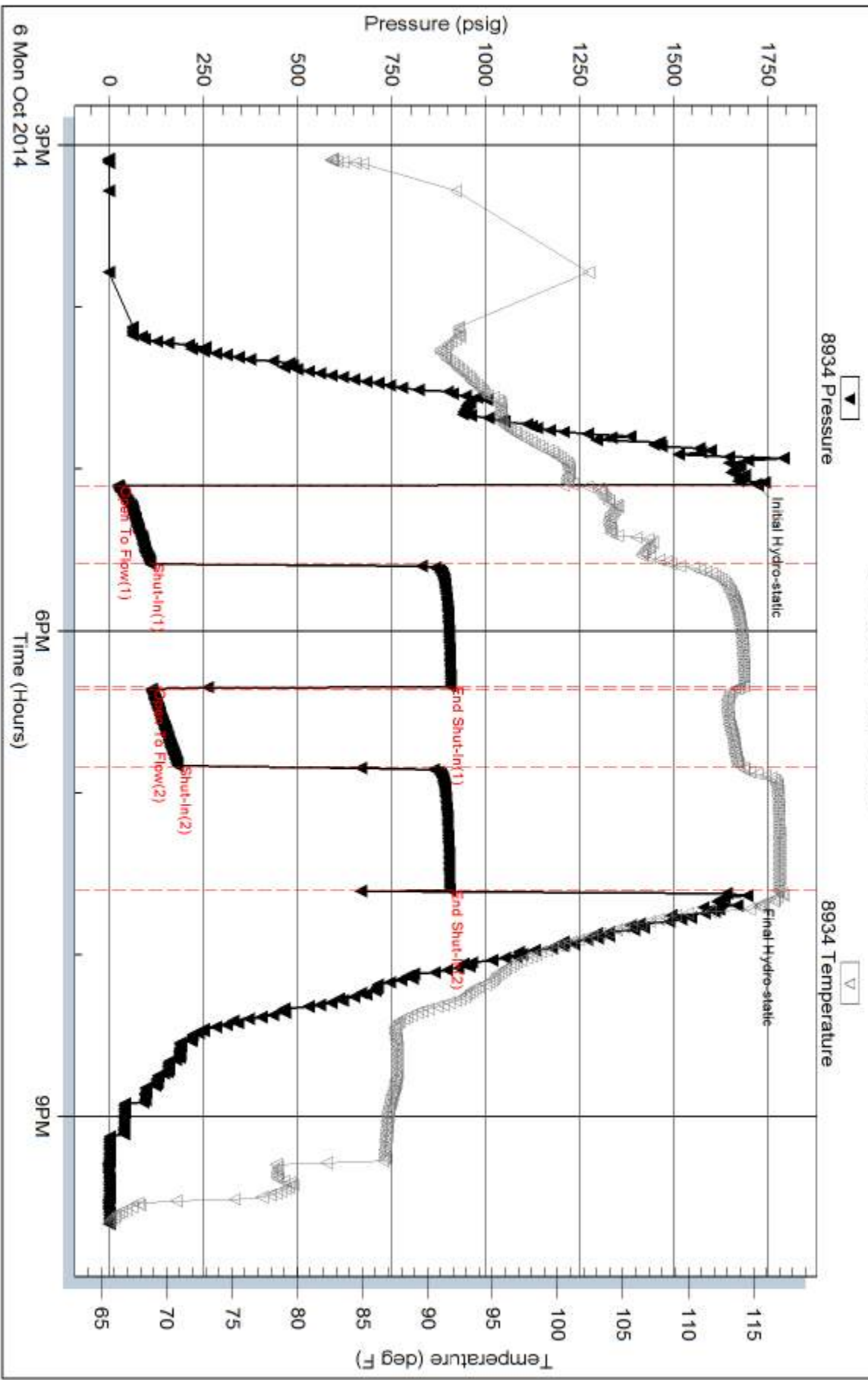
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19, Ellis, KS

PO Box 1121  
Hays KS 67601

**M.R. Allen well #15**

Job Ticket: 60939

**DST#: 4**

ATTN: Steve Reed

Test Start: 2014.10.07 @ 13:20:00

## GENERAL INFORMATION:

Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:46:00  
 Time Test Ended: 17:41:45  
 Interval: **3280.00 ft (KB) To 3348.00 ft (KB) (TVD)**  
 Total Depth: 3544.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 1951.00 ft (KB)  
 1946.00 ft (CF)  
 KB to GR/CF: 5.00 ft

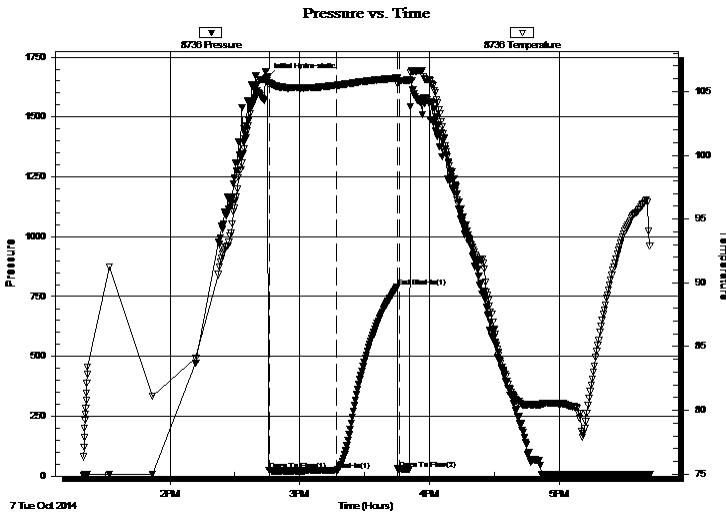
## Serial #: 8736

Outside

Press @ Run Depth: 24.23 psig @ 3281.00 ft (KB)  
 Start Date: 2014.10.07 End Date: 2014.10.07  
 Start Time: 13:20:05 End Time: 17:41:44  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.10.07  
 Time On Btm: 2014.10.07 @ 14:45:00  
 Time Off Btm:

TEST COMMENT: IF-1/2in blow  
 IS-No blow  
 FF-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.19	106.12	Initial Hydro-static
1	23.82	105.67	Open To Flow (1)
32	24.23	105.49	Shut-In(1)
60	789.18	106.06	End Shut-In(1)
62	30.00	105.88	Open To Flow (2)

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mustang Energy Corp

**22-11-19, Ellis, KS**

PO Box 1121  
Hays KS 67601

**M.R. Allen well #15**

Job Ticket: 60939

**DST#: 4**

ATTN: Steve Reed

Test Start: 2014.10.07 @ 13:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 35.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

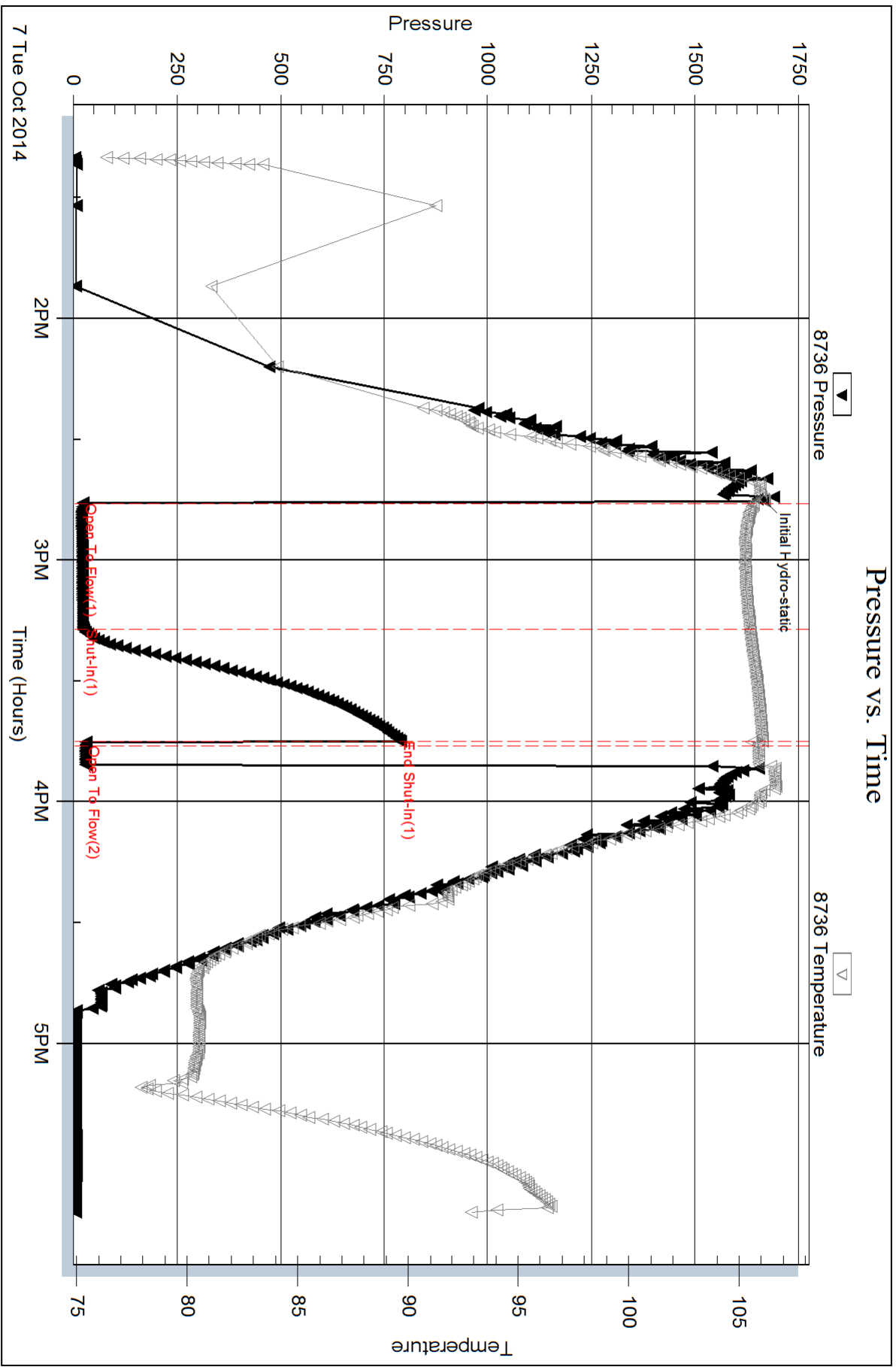
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8934

Below (Straddling) Energy Corp

MR. Allen well #15

DST Test Number: 4

