



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1226244  
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: \_\_\_\_\_



1226244

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:  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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mid-Con Energy Operating Inc

**27-13s-21w Trego**

2431 E.61st ST  
Ste 850  
Tulsa Oklahoma 74136- 1236  
ATTN: Ryan Logsdon

**Bertha Riedel #2-27**

Job Ticket: 47355

**DST#: 1**

Test Start: 2012.04.02 @ 09:51:04

## GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:41:59

Time Test Ended: 17:41:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

**Interval: 3740.00 ft (KB) To 3757.00 ft (KB) (TVD)**

Reference Elevations: 2349.00 ft (KB)

Total Depth: 3757.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6625 Inside**

Press @ RunDepth: 22.98 psig @ 3741.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time:

09:51:04

End Time:

17:41:58

Time On Btm:

2012.04.02 @ 12:38:29

Time Off Btm:

2012.04.02 @ 15:18:28

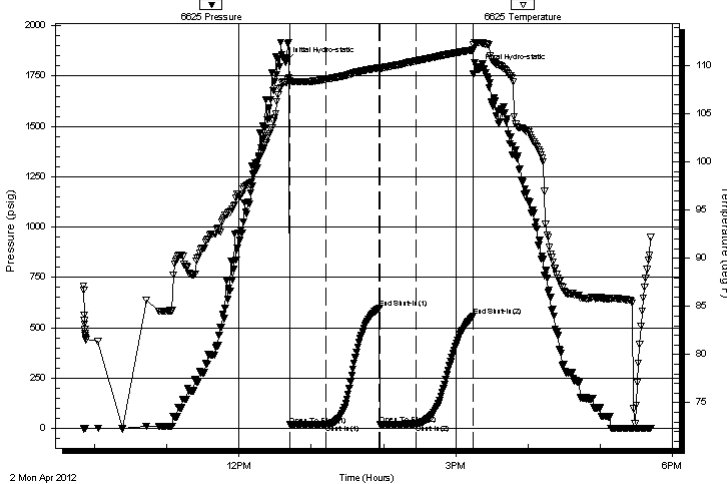
**TEST COMMENT:** 30-IFP-surface bl died in 20min

45-ISIP-no bl

30-FFP-no bl

45-FSIP-no bl

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.85	108.31	Initial Hydro-static
4	18.38	108.41	Open To Flow (1)
34	20.58	108.60	Shut-In(1)
78	598.33	109.81	End Shut-In(1)
79	21.22	109.71	Open To Flow (2)
109	22.98	110.52	Shut-In(2)
156	556.60	111.62	End Shut-In(2)
160	1784.83	112.42	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mid-Con Energy Operating Inc

**27-13s-21w Trego**

2431 E.61st ST  
Ste 850  
Tulsa Oklahoma 74136- 1236  
ATTN: Ryan Logsdon

**Bertha Riedel #2-27**

Job Ticket: 47355      **DST#: 1**

Test Start: 2012.04.02 @ 09:51:04

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 7.96 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## 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:

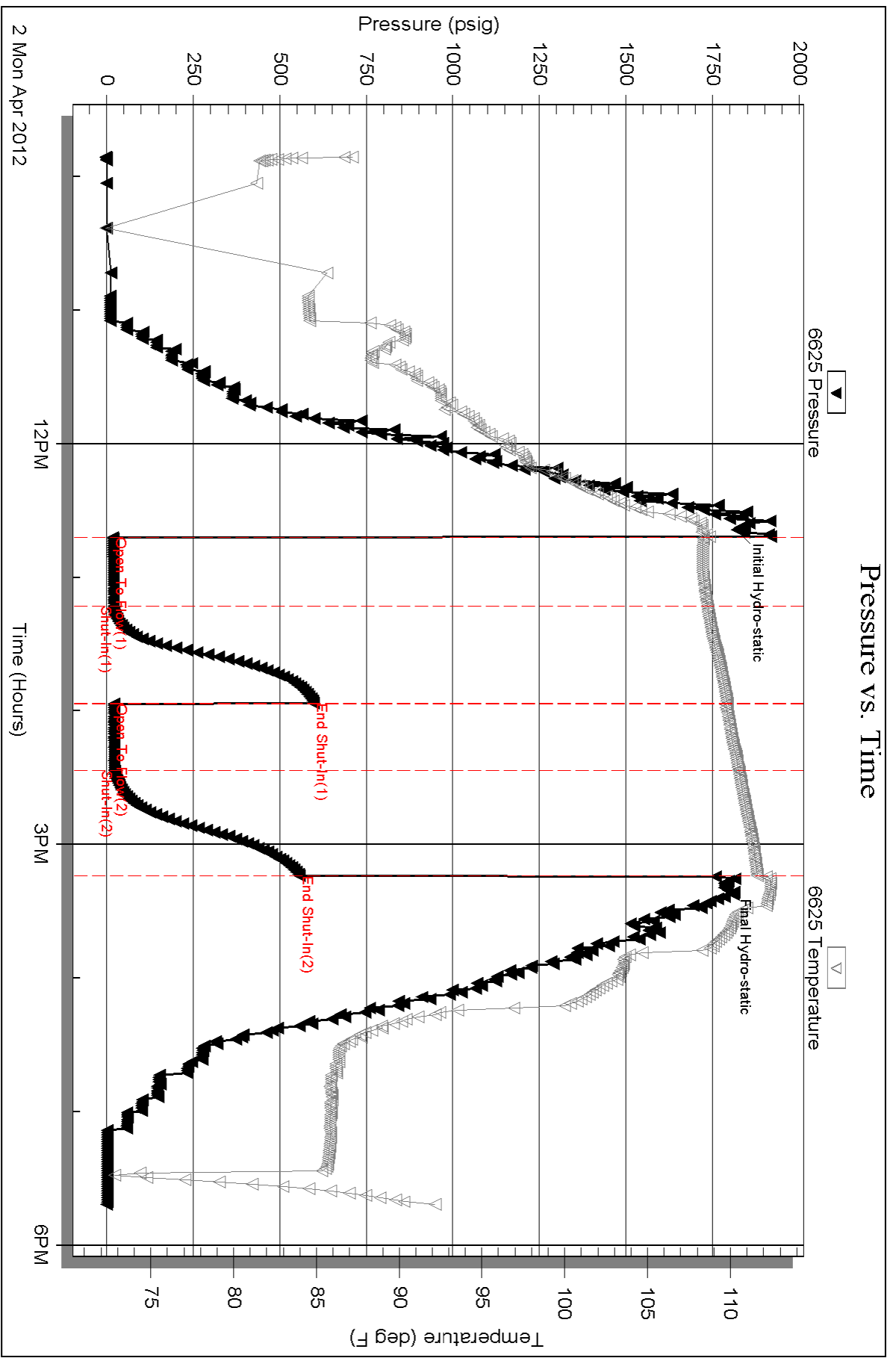
Serial #: 6625

Inside

Md-Con Energy Operating Inc

Bertha Riedel #2-27

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47355

Printed: 2012.04.03 @ 08:42:02



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mid-Con Energy Operating Inc

**27-13s-21w Trego**

2431 E.61st ST  
Ste 850  
Tulsa Oklahoma 74136- 1236  
ATTN: Ryan Logsdon

**Bertha-Riedel #2-27**

Job Ticket: 47356 **DST#: 2**

Test Start: 2012.04.03 @ 15:25:22

## GENERAL INFORMATION:

Formation: **Marmaton-Congl**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:40:47  
 Time Test Ended: 00:12:17  
 Interval: **4008.00 ft (KB) To 4048.00 ft (KB) (TVD)**  
 Total Depth: 4048.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2349.00 ft (KB)  
 2339.00 ft (CF)  
 KB to GR/CF: 10.00 ft

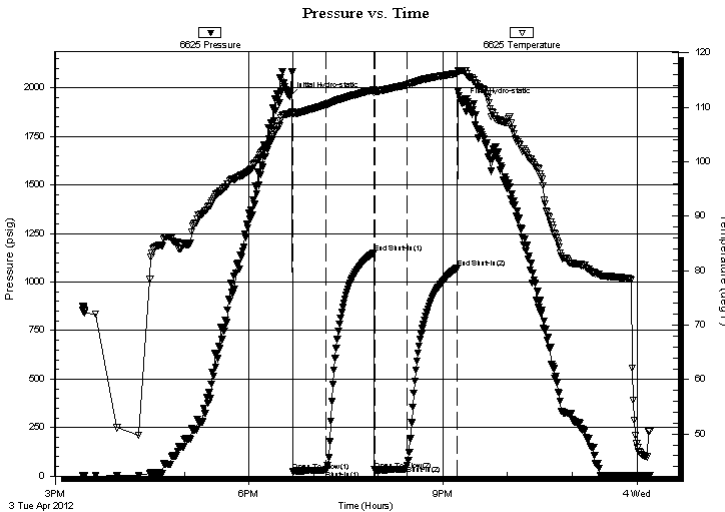
## Serial #: 6625

Inside

Press @ Run Depth: 54.57 psig @ 4014.00 ft (KB)  
 Start Date: 2012.04.03 End Date: 2012.04.04  
 Start Time: 15:25:22 End Time: 00:12:17  
 Capacity: 8000.00 psig  
 Last Calib.: 2012.04.04  
 Time On Btm: 2012.04.03 @ 18:37:17  
 Time Off Btm: 2012.04.03 @ 21:18:16

TEST COMMENT: 30-IFP-surface bl Thru-out  
 45-ISIP-no bl  
 30-FFP-no bl  
 45-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.40	108.83	Initial Hydro-static
4	25.60	108.88	Open To Flow (1)
34	29.80	110.41	Shut-In(1)
79	1151.54	113.19	End Shut-In(1)
79	32.54	112.72	Open To Flow (2)
110	54.57	114.12	Shut-In(2)
156	1071.07	116.19	End Shut-In(2)
161	1925.04	116.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 1%O99%M	0.10

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mid-Con Energy Operating Inc  
2431 E.61st ST  
Ste 850  
Tulsa Oklahoma 74136- 1236  
ATTN: Ryan Logsdon

**27-13s-21w Trego**  
**Bertha-Riedel #2-27**  
Job Ticket: 47356      **DST#: 2**  
Test Start: 2012.04.03 @ 15:25:22

## Mud and Cushion Information

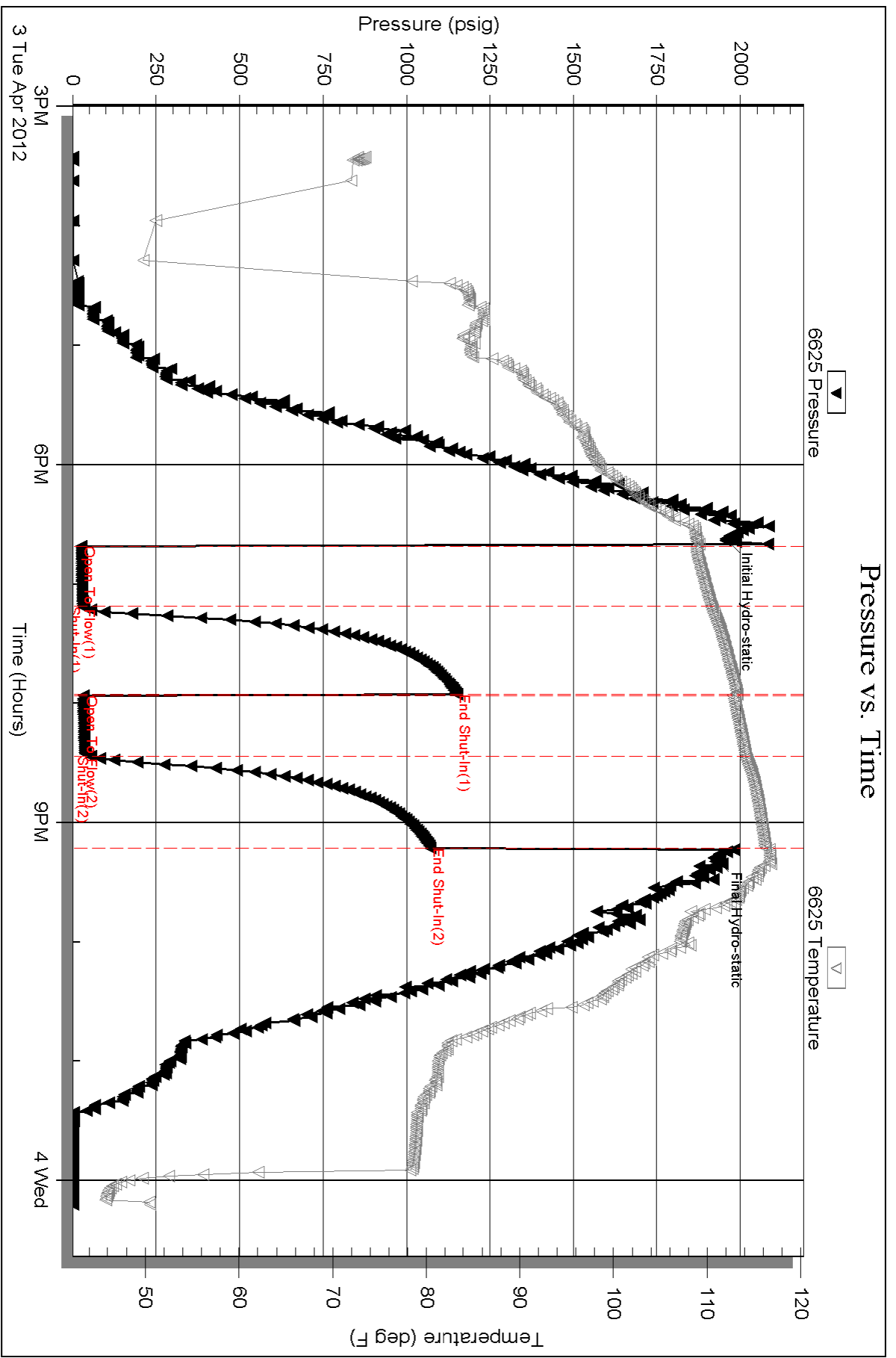
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 1%O99%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





785-483-3047 Jody

# ALLIED OIL & GAS SERVICES, LLC 056938

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell

DATE <u>4-5-19</u>	SEC <u>27</u>	TWP <u>13</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
SETH MIDDLE LEASE	WELL # <u>2-27</u>	LOCATION <u>Sign 65 E into</u>		COUNTY <u>Free</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR <u>Richard RA</u>	OWNER
TYPE OF JOB <u>3 base</u>	CEMENT
HOLE SIZE <u>T.D. 4236</u>	AMOUNT ORDERED <u>1704 ASC</u>
CASING SIZE <u>6 5/8</u>	DEPTH <u>4030</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL DN	DEPTH <u>1773</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>20'</u>
CEMENT LEFT IN CSG. <u>10</u>	PERFS.
DISPLACEMENT <u>99.9646</u>	EQUIPMENT
PUMP TRUCK # <u>409</u>	CEMENTER <u>Todd BOB</u>
BULK TRUCK # <u>410</u>	HELPER <u>Henry</u>
BULK TRUCK #	DRIVER <u>Robert V.</u>
	DRIVER <u>Cathy</u>
	TOTAL <u>12,112.85</u>

REMARKS:  
 Can't find 1773 file. Estimated calculation from  
 can surface and depth 1704 ASC. Partial  
 1000ft hole. Plug & bleed. 1704 ASC. Partial  
 now casing bleed. Partial 1704 ASC. Partial  
 calculated and 1704 ASC. Partial 1704 ASC. Partial  
 1704 ASC. Partial 1704 ASC. Partial 1704 ASC. Partial  
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DEPTH OF JOB	4236	SERVICE
PUMP TRUCK CHARGE	740	
EXTRA FOOTAGE	4236	
MILEAGE MHW	400	
MANIFOLD	350	
MILEAGE	400	
TOTAL	3303	

DEPTH OF JOB	4236	SERVICE
PUMP TRUCK CHARGE	740	
EXTRA FOOTAGE	4236	
MILEAGE MHW	400	
MANIFOLD	350	
MILEAGE	400	
TOTAL	3303	

SALES TAX (If Any)	
TOTAL CHARGES	<u>10,665.25</u>
DISCOUNT	<u>- 5525.15</u> IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Richard RA  
 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.

\$13,927.52 Actual