



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1236769  
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: \_\_\_\_\_



1236769

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Craig, Ward dba Craig Oil Company
Well Name	Nuss 1
Doc ID	1236769

All Electric Logs Run

DUAL INDUCTION
COMPENSATION
MICRO
POROSITY

# 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. 1085

Date	12-16-2014	Sec.	7	Twp.	16	Range	14	County	BARTON	State	KANSAS	On Location	9:45 10:45 AM
Location: Russell, KS, S to Col. ne 3W 1S 2W 4S													

Lease	Nuss	Well No.	1	Owner	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.
Contractor	Royal Drilling Rig #1	Type Job	Long Surface	Charge To	WARD CRAIG OIL COMPANY
Hole Size	12 1/4	T.D.	420'	Street	
Csg.	8 5/8 New	Depth	420'	City	State
Tbg. Size	23" CSG	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered 225 s x Com.	
Cement Left in Csg.	20'	Shoe Joint		3%cc 2% GEL	
Meas Line		Displace	25 1/2 BBL		

**EQUIPMENT**

Pumptrk	5	No.	Cement Helper	Allen G. BRET P. TYSON S.	Common
Bulktrk	1	No.	Driver		Poz. Mix
Bulktrk		No.	Driver		Gel.
Bulktrk		No.	Driver		Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Get 8 5/8 Surface @	Sand
Pro. good circulation & cement	Handling
w/ 225 s x Com. 302.	Mileage

**FLOAT EQUIPMENT**

Displace A TOTAL OF 25 1/2 BBL H <sub>2</sub> O	Guide Shoe
& SHUT IN @ 350 #.	Centralizer
Cement P.D. Circulate	Baskets
to SURFACE	AFU Inserts
	Float Shoe
	Latch Down

Signature	Pumptrk Charge	Tax
	Mileage	Discount
		Total Charge

# 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. 1370

Date 12-23-14	Sec. 7	Twp. 16	Range 14	County Barton	State KS	On Location	Finish 10:45 PM
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Location 281, Sto CL., w to Black top, 15, 1/2W

Lease <i>Nuss</i>	Well No. 1	Owner 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.
Contractor <i>Royal #1</i>		
Type Job <i>Plug</i>		
Hole Size <i>7/8</i>	T.D. <i>3470</i>	Charge To <i>Ward Craig</i>
Csg.	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <i>255 sx 60/40, 4% gel, 1/4 # Flow</i>
Meas Line	Displace	

**EQUIPMENT**

Pumptrk <i>17</i>	No.	Cement Helper <i>Lonnie W.</i>	Common
Bulktrk <i>21</i>	No.	Driver <i>Ryan</i>	Poz. Mix
Bulktrk <i>P4</i>	No.	Driver <i>Travis</i>	Gel.
			Calcium

**JOB SERVICES & REMARKS**

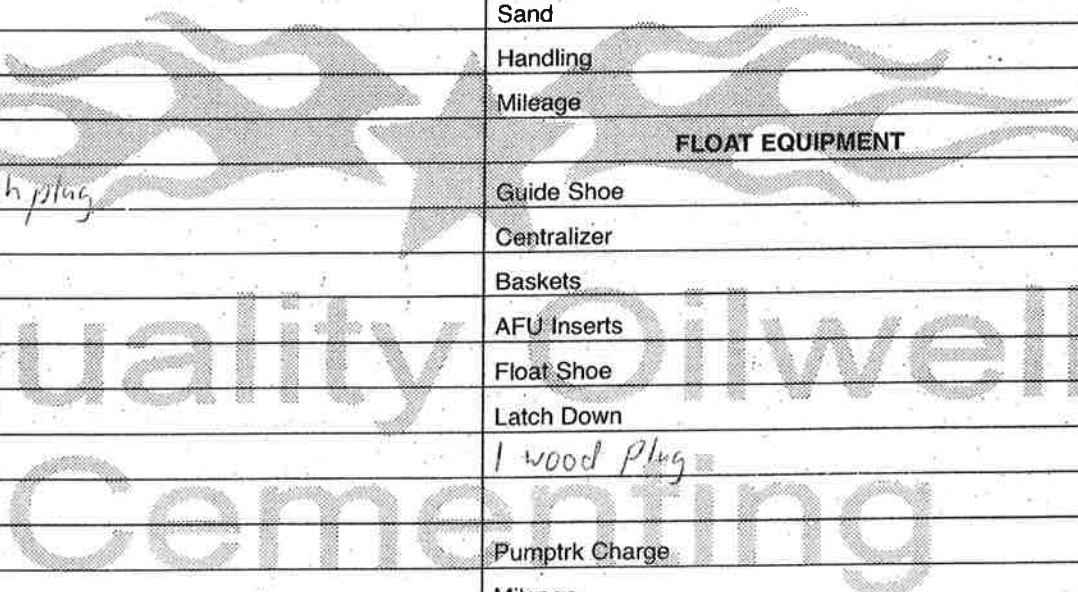
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>50 at 3360</i>	Sand
<i>50 sx at 950</i>	Handling
<i>100 sx at 480</i>	Mileage

**FLOAT EQUIPMENT**

<i>105x at 40 with plug</i>	Guide Shoe
<i>30sx Rat</i>	Centralizer
<i>15sx Mouse</i>	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<i>1 wood Plug</i>
	Pumptrk Charge
	Mileage

	Tax
	Discount
	Total Charge

X Signature *Carl J. Buff*





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Craig Oil Company  
 15 South Main  
 Russell Ks, 67665-2901  
 ATTN: Bruce Basye

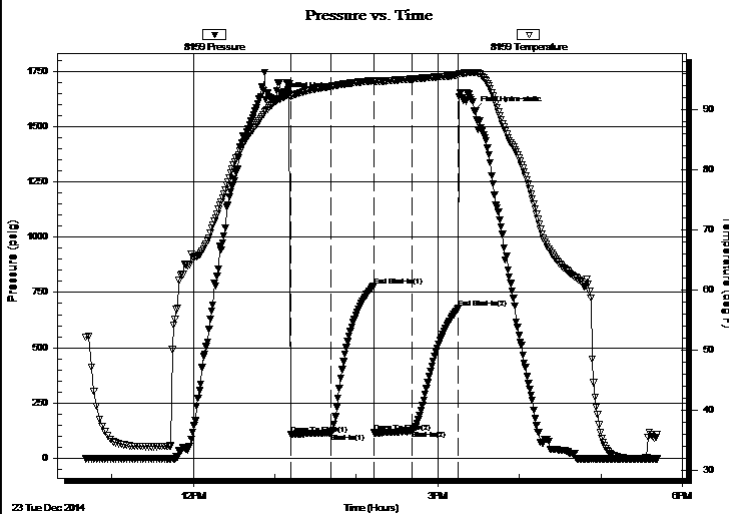
**7/16s/14w/Barton**  
**Nuss #1**  
 Job Ticket: 60424      **DST#: 1**  
 Test Start: 2014.12.23 @ 10:40:00

## GENERAL INFORMATION:

Formation: **Lansing "G-I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:11:30  
 Time Test Ended: 17:41:30  
 Interval: **3216.00 ft (KB) To 3324.00 ft (KB) (TVD)**  
 Total Depth: 3470.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 56/46/Great Bend  
 Reference Elevations: 1912.00 ft (KB)  
 1906.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 8159      Outside**  
 Press@RunDepth: 128.00 psig @ 3323.80 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.12.23      End Date: 2014.12.23      Last Calib.: 2014.12.23  
 Start Time: 10:41:00      End Time: 17:41:30      Time On Btm: 2014.12.23 @ 13:05:30  
 Time Off Btm: 2014.12.23 @ 15:26:30

**TEST COMMENT:** 1st Open/ 30 Minutes. Weak blow built to 3 1/2 inches into water.  
 1st Shut In/ 30 Minutes. No blow back.  
 2nd Open/ 30 Minutes. Weak blow built to 1/2 inch into water.  
 2nd Shut In/ 30 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1635.18	91.92	Initial Hydro-static
6	109.25	92.19	Open To Flow (1)
36	114.95	93.83	Shut-In(1)
67	779.67	94.77	End Shut-In(1)
68	116.26	94.54	Open To Flow (2)
96	128.00	95.05	Shut-In(2)
130	678.74	95.65	End Shut-In(2)
141	1572.15	96.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	100% Mud	1.77

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Craig Oil Company  
15 South Main  
Russell Ks, 67665-2901  
ATTN: Bruce Basye

**7/16s/14w/Barton**

**Nuss #1**

Job Ticket: 60424

**DST#: 1**

Test Start: 2014.12.23 @ 10:40:00

### GENERAL INFORMATION:

Formation: **Lansing "G-I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:11:30

Time Test Ended: 17:41:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 56/46/Great Bend

Interval: **3216.00 ft (KB) To 3324.00 ft (KB) (TVD)**

Reference Elevations: 1912.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

**Serial #: 6806 Below (Straddle)**

Press@RunDepth: psig @ 3471.71 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.23 End Date: 2014.12.23

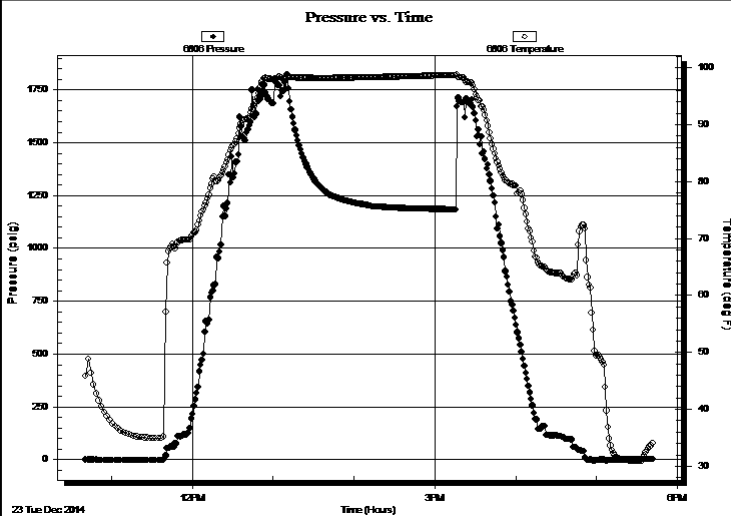
Last Calib.: 2014.12.23

Start Time: 10:41:00 End Time: 17:41:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 3 1/2 inches into water.  
1st Shut In/ 30 Minutes. No blow back.  
2nd Open/ 30 Minutes. Weak blow built to 1/2 inch into water.  
2nd Shut In/ 30 Minutes. No blow back.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
126.00	100% Mud	1.77

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Craig Oil Company  
15 South Main  
Russell Ks, 67665-2901  
ATTN: Bruce Basye

**7/16s/14w/Barton**  
**Nuss #1**  
Job Ticket: 60424      **DST#: 1**  
Test Start: 2014.12.23 @ 10:40:00

## 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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.00 inches			

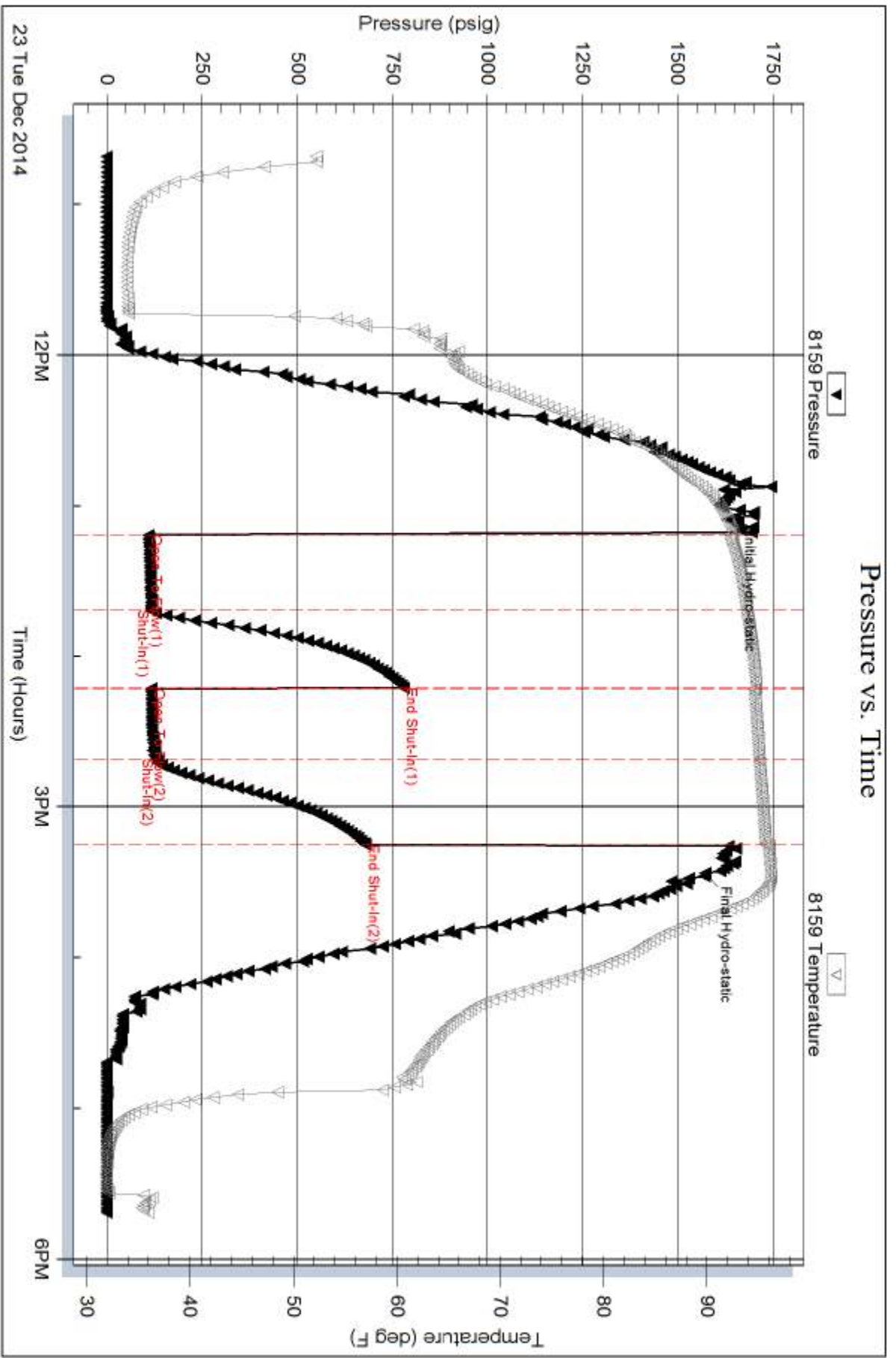
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	100% Mud	1.767

Total Length: 126.00 ft      Total Volume: 1.767 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



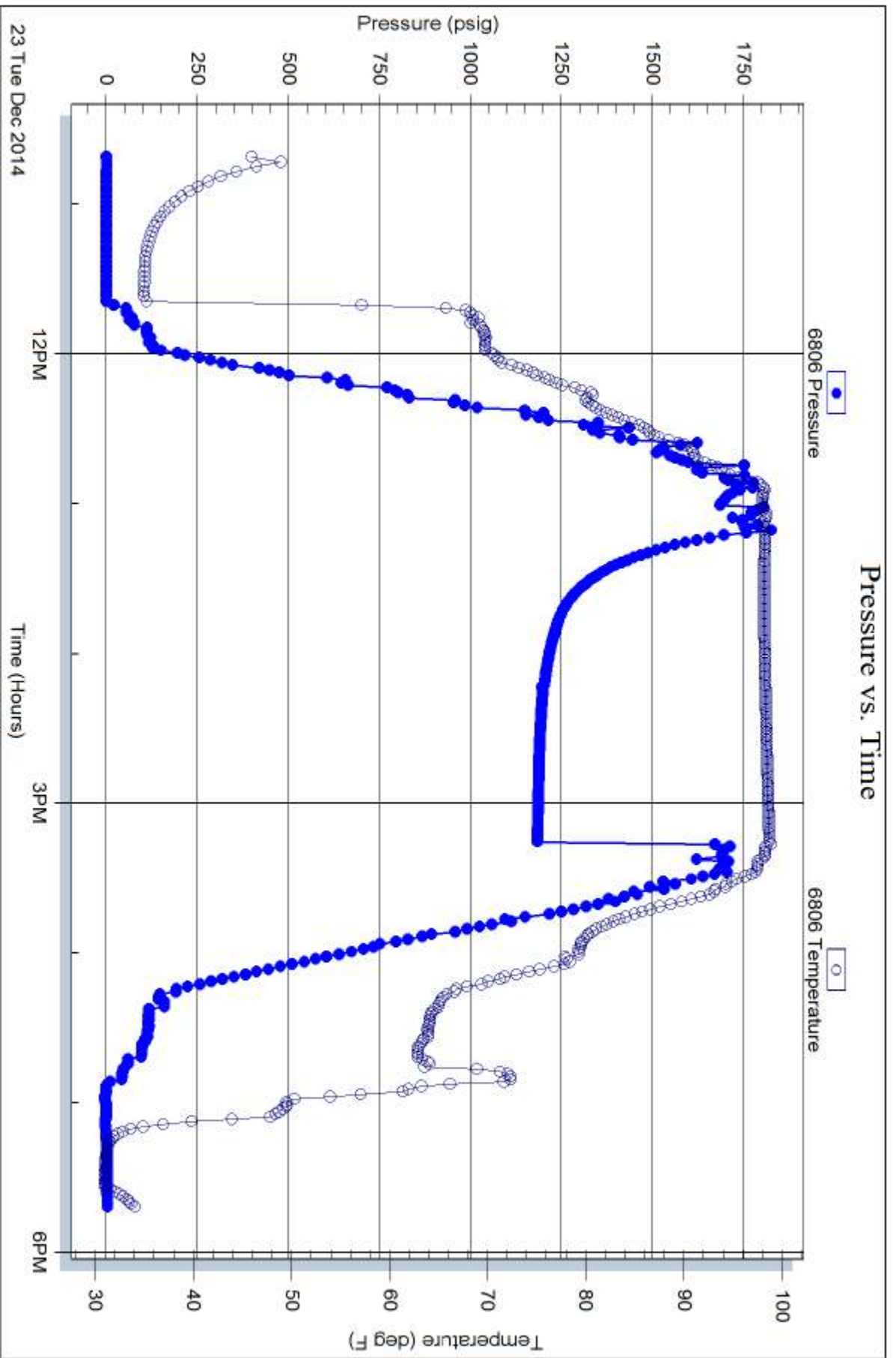


Serial #: 6806

Below (Straddle) Oil Company

Nuss #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 60424

Printed: 2014, 12, 24 @ 08:54:54