



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates Inc.

**18/10s/30w Sheridan KS**

1515 Wynkoop STE 700  
Denver, CO 80202

**Ottley #1-18**

Job Ticket: 60838

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.12.18 @ 16:18:00

## GENERAL INFORMATION:

Formation: **LKC "I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:21:45  
 Time Test Ended: 23:50:15  
 Interval: **4154.00 ft (KB) To 4185.00 ft (KB) (TVD)**  
 Total Depth: 4185.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 2941.00 ft (KB)  
 2933.00 ft (CF)  
 KB to GR/CF: 8.00 ft

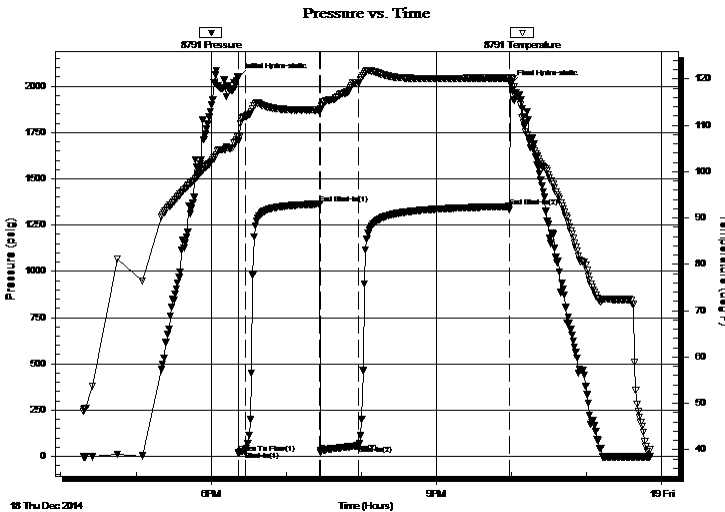
## Serial #: 8791

Inside

Press @ Run Depth: 57.62 psig @ 4155.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.18 End Date: 2014.12.18 Last Calib.: 2014.12.19  
 Start Time: 16:18:05 End Time: 23:50:14 Time On Btm: 2014.12.18 @ 18:21:30  
 Time Off Btm: 2014.12.18 @ 21:59:15

**TEST COMMENT:** 5 - IF: Blow built to 5 1/2" (Diesel in bucket)  
 60 - ISI: Surface blow back, lasted 5 - 10 min., then dead  
 30 - FF: 5" Surge blow at open, built to BOB (11") at 5 min.  
 120 - FSI: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.83	107.54	Initial Hydro-static
1	15.21	106.56	Open To Flow (1)
6	28.84	111.90	Shut-In(1)
66	1363.83	113.43	End Shut-In(1)
66	23.38	113.47	Open To Flow (2)
97	57.62	119.20	Shut-In(2)
217	1350.72	120.20	End Shut-In(2)
218	2011.38	120.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO 46%o, 44%g, 10%m	0.07
102.00	GOM 47%m, 38%o, 15%g	1.29
0.00	GIP = 385'	0.00

\* Recovery from multiple tests

## Gas Rates

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



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ATTN: Clayton Camozzi

Test Start: 2014.12.18 @ 16:18:00

## GENERAL INFORMATION:

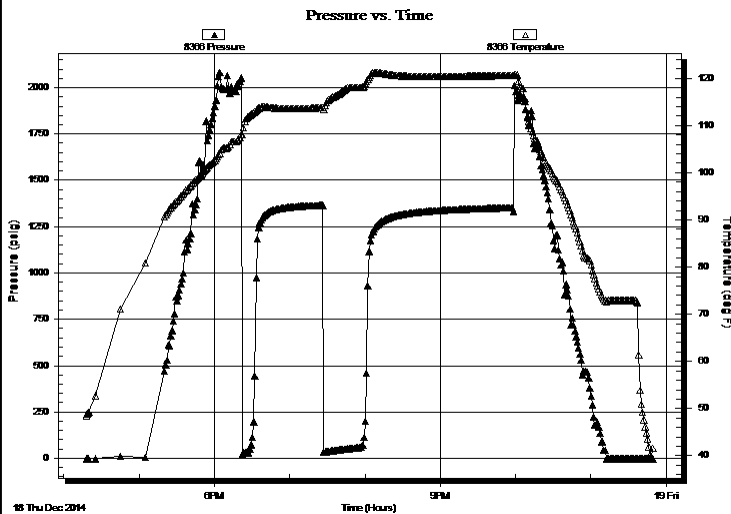
Formation: **LKC "I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:21:45  
 Time Test Ended: 23:50:15  
 Interval: **4154.00 ft (KB) To 4185.00 ft (KB) (TVD)**  
 Total Depth: 4185.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 2941.00 ft (KB)  
 2933.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8366

Outside

Press @ Run Depth: psig @ 4155.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.18 End Date: 2014.12.18 Last Calib.: 2014.12.19  
 Start Time: 16:18:05 End Time: 23:49:29 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 5 - IF: Blow built to 5 1/2" (Diesel in bucket)  
 60 - IS: Surface blow back, lasted 5 - 10 min., then dead  
 30 - FF: 5" Surge blow at open, built to BOB (11") at 5 min.  
 120 - FS: No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO 46%o, 44%g, 10%m	0.07
102.00	GOM 47%m, 38%o, 15%g	1.29
0.00	GIP = 385'	0.00

\* Recovery from multiple tests

## Gas Rates

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



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Job Ticket: 60838

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.12.18 @ 16:18:00

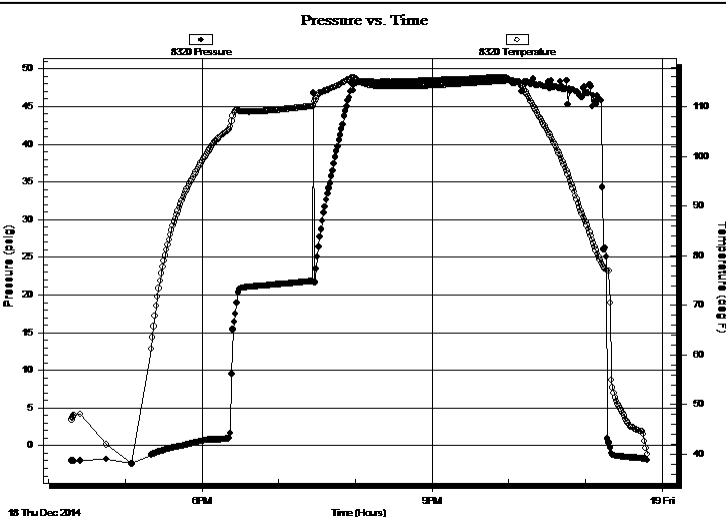
## GENERAL INFORMATION:

Formation: **LKC "I"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 18:21:45 Tester: James Winder  
 Time Test Ended: 23:50:15 Unit No: 83  
**Interval: 4154.00 ft (KB) To 4185.00 ft (KB) (TVD)**  
 Reference Elevations: 2941.00 ft (KB)  
 Total Depth: 4185.00 ft (KB) (TVD) 2933.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8320 Fluid

Press @ RunDepth: psig @ 4121.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.18 End Date: 2014.12.18 Last Calib.: 2014.12.19  
 Start Time: 16:18:05 End Time: 23:48:29 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 5 - IF: Blow built to 5 1/2" (Diesel in bucket)  
 60 - IS: Surface blow back, lasted 5 - 10 min., then dead  
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 120 - FS: No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO 46%o, 44%g, 10%m	0.07
102.00	GOM 47%m, 38%o, 15%g	1.29
0.00	GIP = 385'	0.00

## Gas Rates

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

\* Recovery from multiple tests



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**FLUID SUMMARY**

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**Ottley #1-18**

Job Ticket: 60838

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.12.18 @ 16:18:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GMCO 46%o, 44%g, 10%m	0.074
102.00	GOM 47%m, 38%o, 15%g	1.285
0.00	GIP = 385'	0.000

Total Length: 117.00 ft

Total Volume: 1.359 bbl

Num Fluid Samples: 0

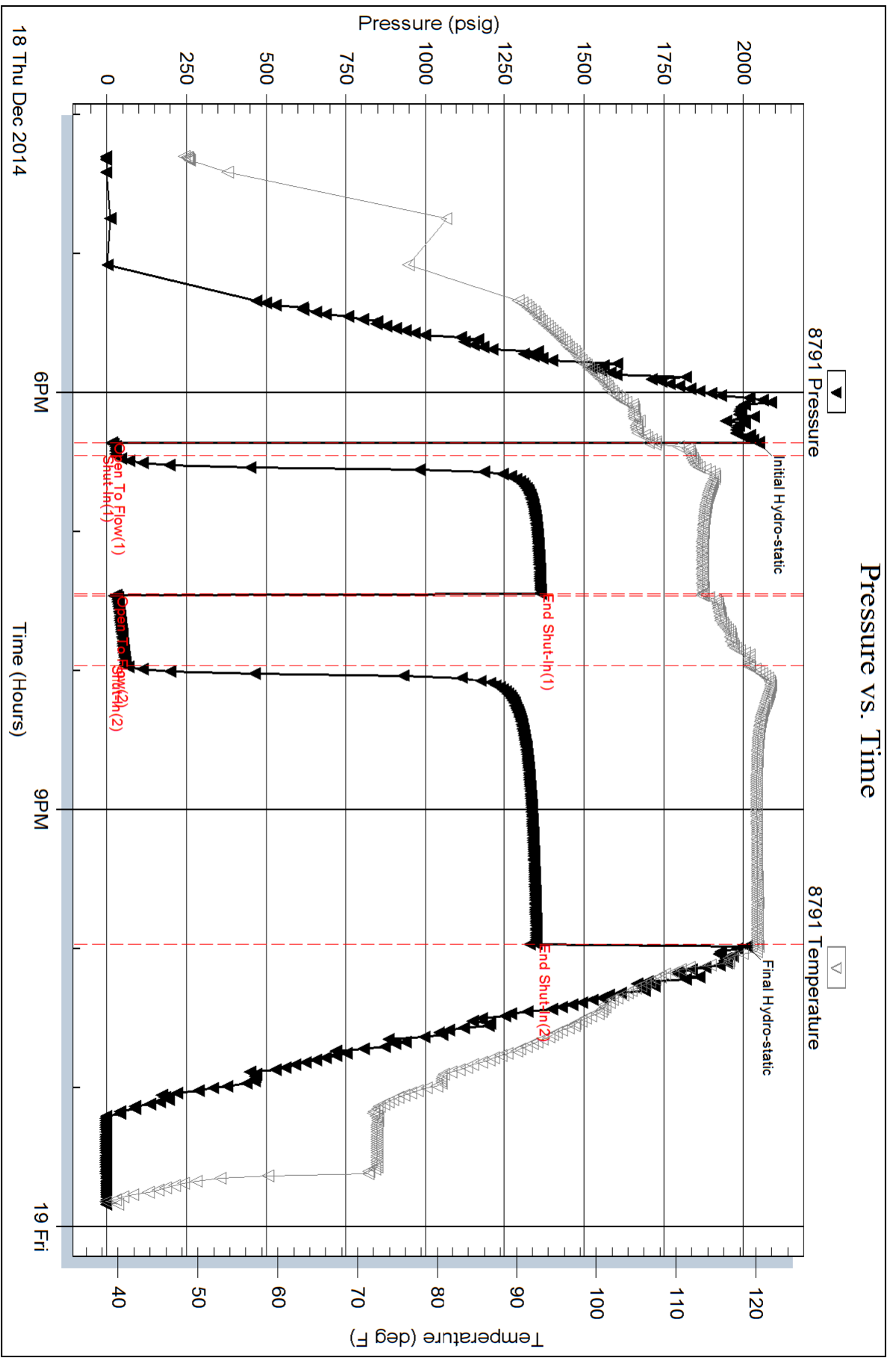
Num Gas Bombs: 0

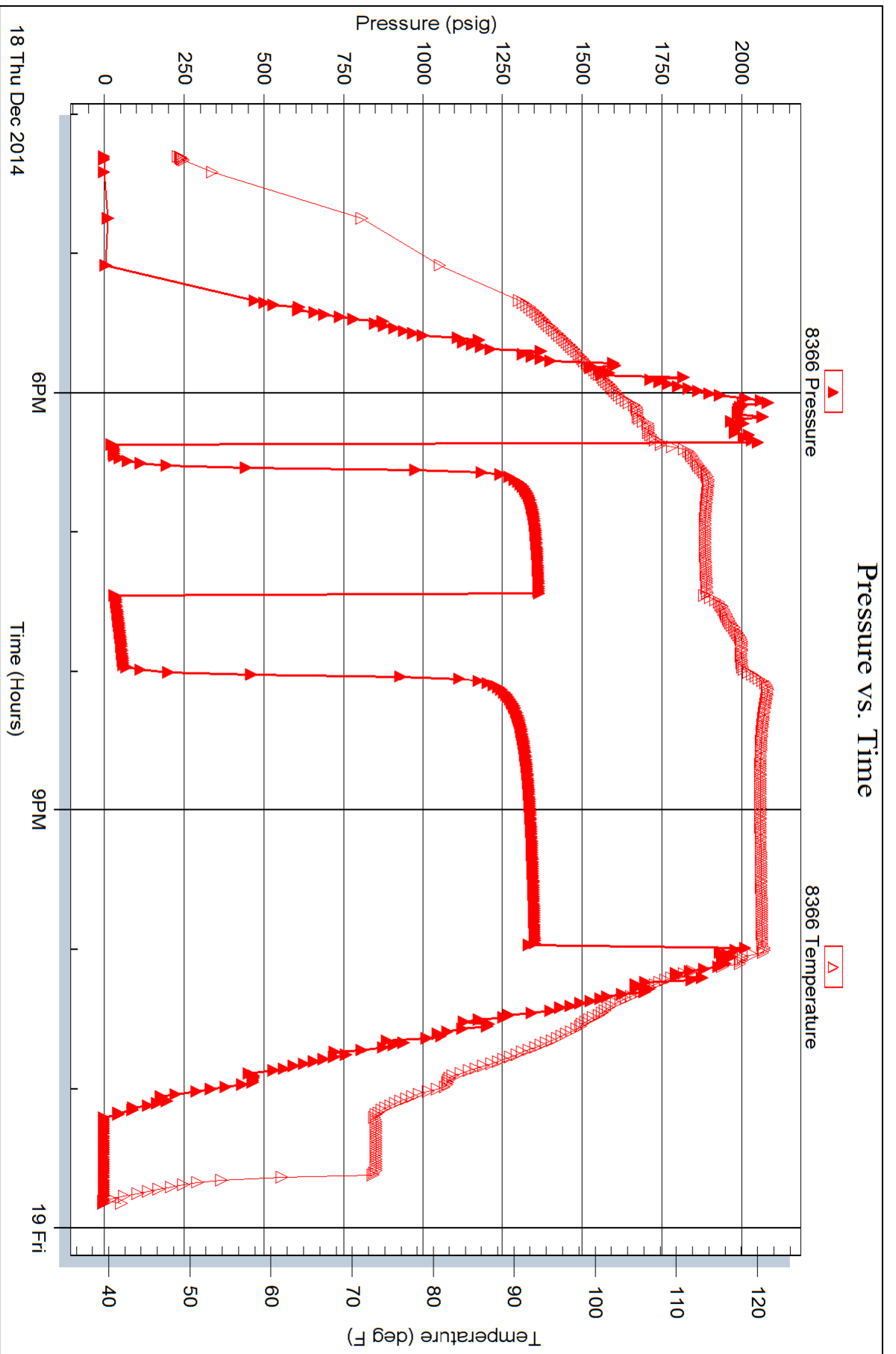
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Serial #: 8320

Fluid

Samuel Gary Jr. & Associates Inc.

Ottley #1-18

DST Test Number: 2

