



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**31-11S-12W Trego, KS**

1515 Wynkoop STE. 700  
Denver, CO 80202

**John Nilhas 1-31**

Job Ticket: 54010

**DST#: 4**

ATTN: Clayton Camozzi

Test Start: 2014.02.28 @ 19:42:26

## GENERAL INFORMATION:

Formation: **LKC "I-J"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 21:50:46  
 Tester: Brannan L  
 Time Test Ended: 03:02:46  
 Unit No: 48  
 Interval: **3808.00 ft (KB) To 3854.00 ft (KB) (TVD)**  
 Reference Elevations: 2343.00 ft (KB)  
 Total Depth: 3854.00 ft (KB) (TVD)  
 2338.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

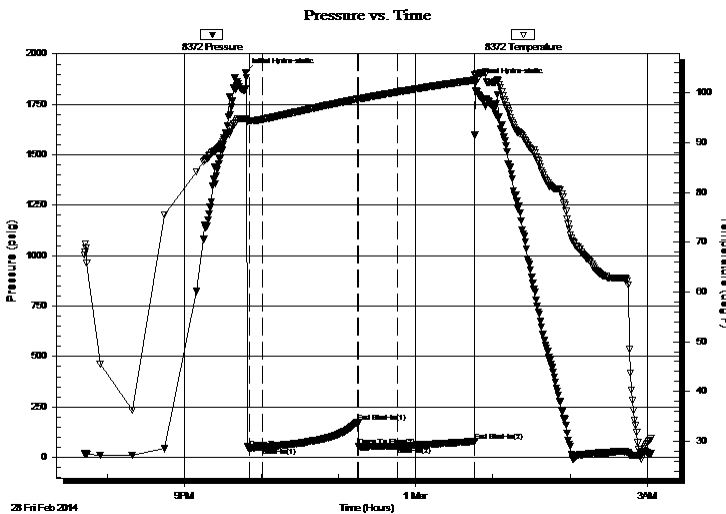
## Serial #: 8372

Inside

Press @ Run Depth: 53.71 psig @ 3809.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.28 End Date: 2014.03.01 Last Calib.: 2014.03.01  
 Start Time: 19:42:31 End Time: 03:02:46 Time On Btm: 2014.02.28 @ 21:47:46  
 Time Off Btm: 2014.03.01 @ 00:46:35

TEST COMMENT: 10- IF- 1/2"  
 75- IS- No blow  
 30- FF- No blow  
 60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.66	94.79	Initial Hydro-static
3	46.42	94.37	Open To Flow (1)
13	50.39	94.68	Shut-In(1)
88	175.18	98.80	End Shut-In(1)
88	52.45	98.79	Open To Flow (2)
118	53.71	100.17	Shut-In(2)
178	79.76	102.58	End Shut-In(2)
179	1859.89	103.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mw/Ospots	0.02

\* Recovery from multiple tests

## Gas Rates

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







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**FLUID SUMMARY**

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## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mw/Ospots	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

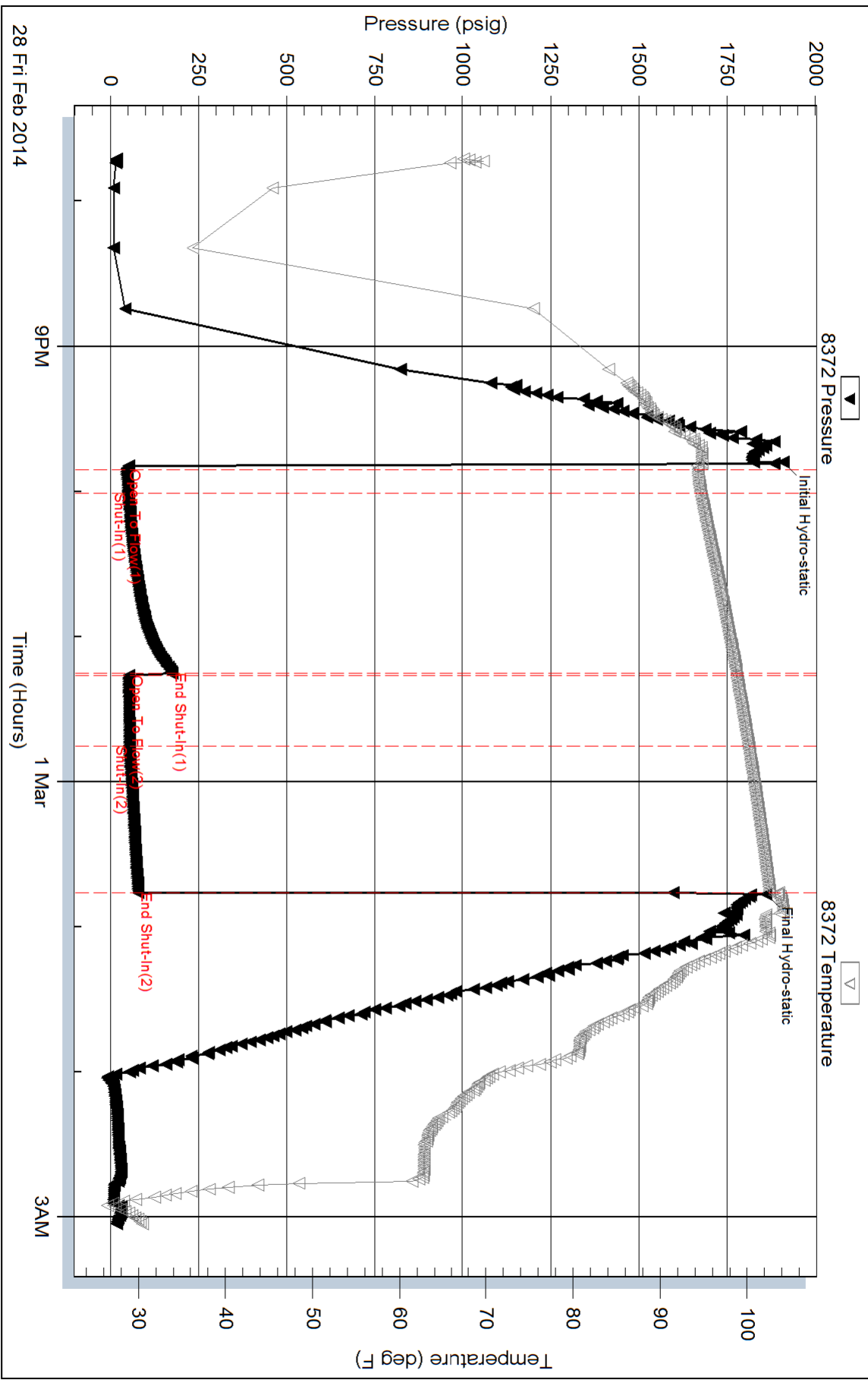
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 1900mLM 100mLO

### Pressure vs. Time



Serial #: 8321

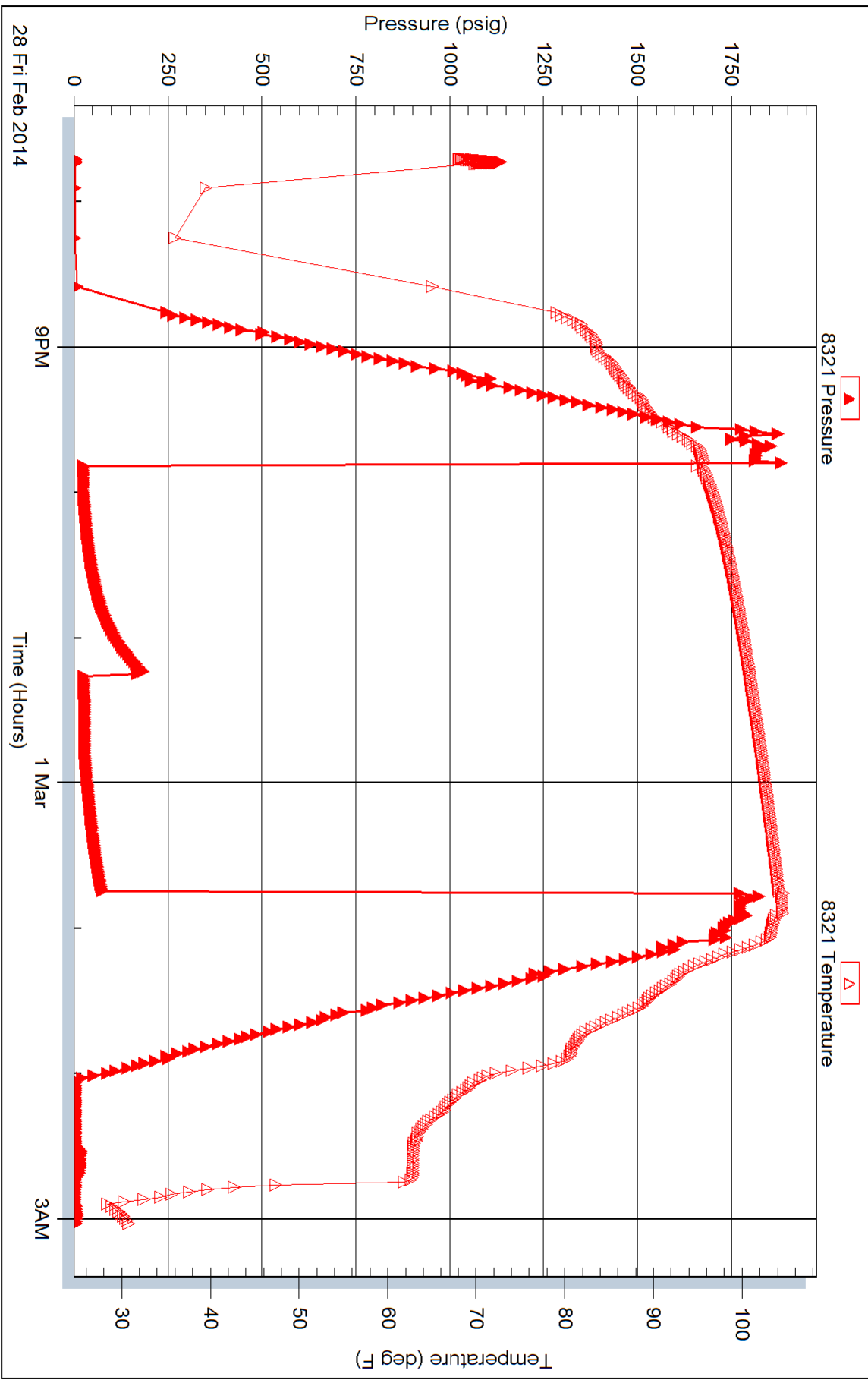
Outside

Samuel Gary Jr. & Associates, Inc.

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DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 54010

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