



**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: 55378

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.02.27 @ 02:02:48

## GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:41:28

Time Test Ended: 11:17:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 48

**Interval: 3625.00 ft (KB) To 3688.00 ft (KB) (TVD)**

Reference Elevations: 2343.00 ft (KB)

Total Depth: 3688.00 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@RunDepth: 228.38 psig @ 3626.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.27

End Date:

2014.02.27

Last Calib.:

2014.02.27

Start Time: 02:02:53

End Time:

11:17:28

Time On Btm:

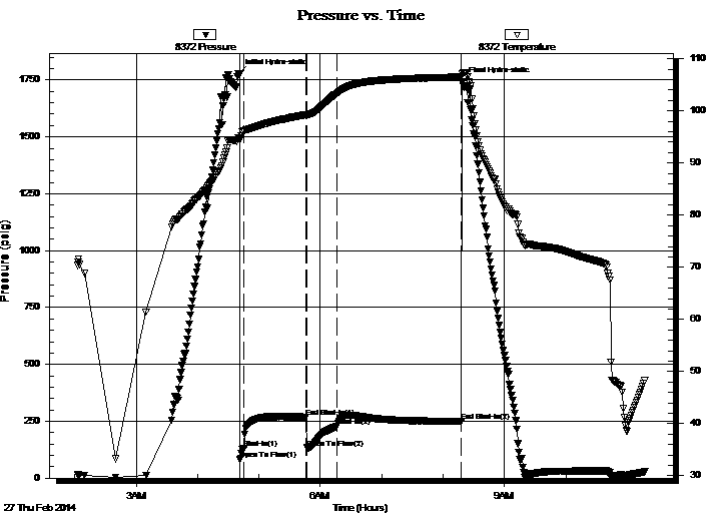
2014.02.27 @ 04:40:18

Time Off Btm:

2014.02.27 @ 08:18:48

## TEST COMMENT:

- 005- IF- Built to 8"
- 060- IS- Weak surface blow that died after 15mins
- 030- FF- BOB 7mins
- 120- FS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.87	94.82	Initial Hydro-static
2	84.00	94.46	Open To Flow (1)
6	130.41	96.26	Shut-In(1)
66	268.41	99.26	End Shut-In(1)
67	133.42	99.26	Open To Flow (2)
96	228.38	103.38	Shut-In(2)
218	250.71	106.53	End Shut-In(2)
219	1741.81	107.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
350.00	MW w / show of O, 60%W	3.71

\* Recovery from multiple tests

## Gas Rates

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





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**FLUID SUMMARY**

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Job Ticket: 55378

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.02.27 @ 02:02:48

## 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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2250.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	MW w / show of O, 60%W	3.715

Total Length: 350.00 ft      Total Volume: 3.715 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

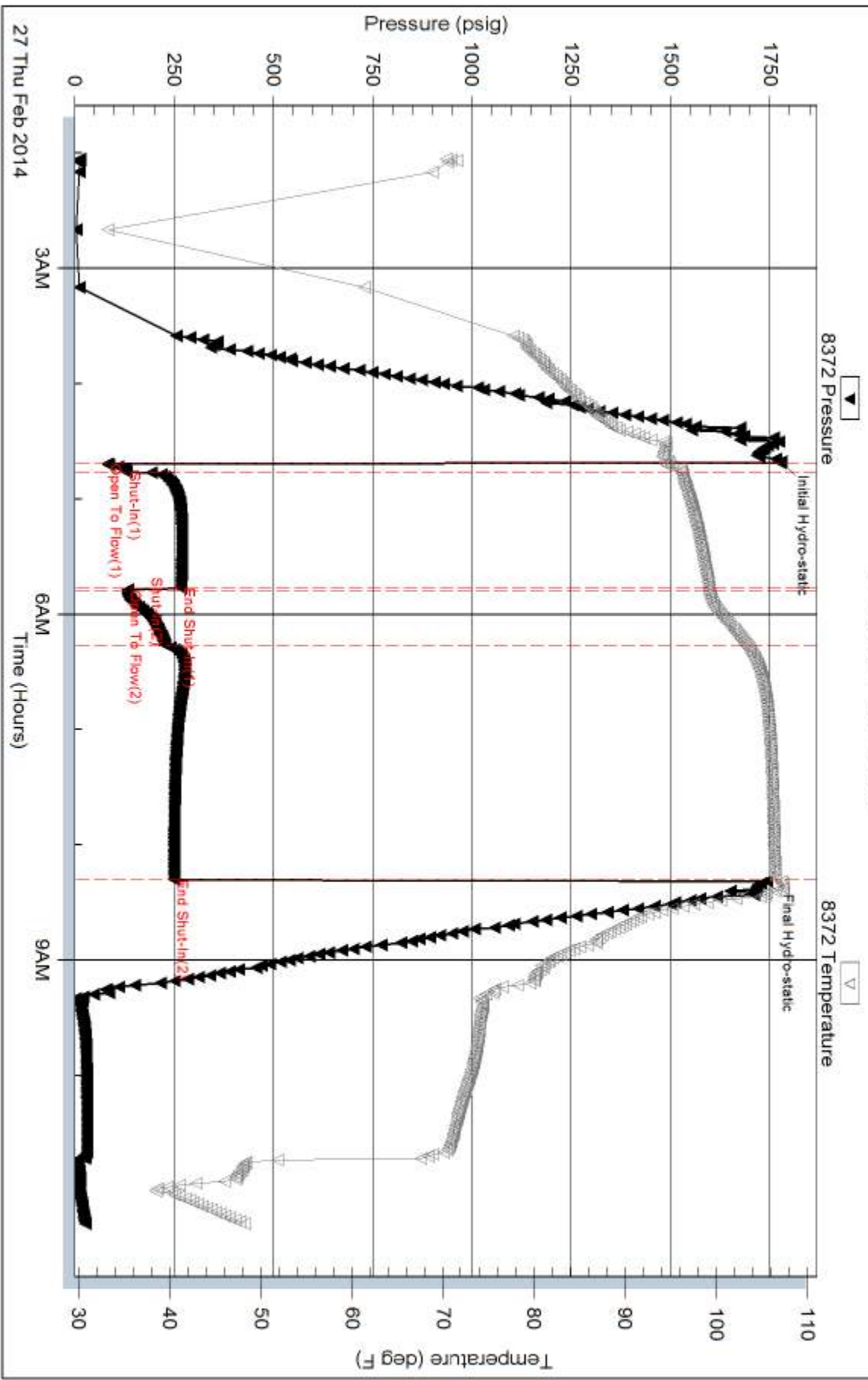
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



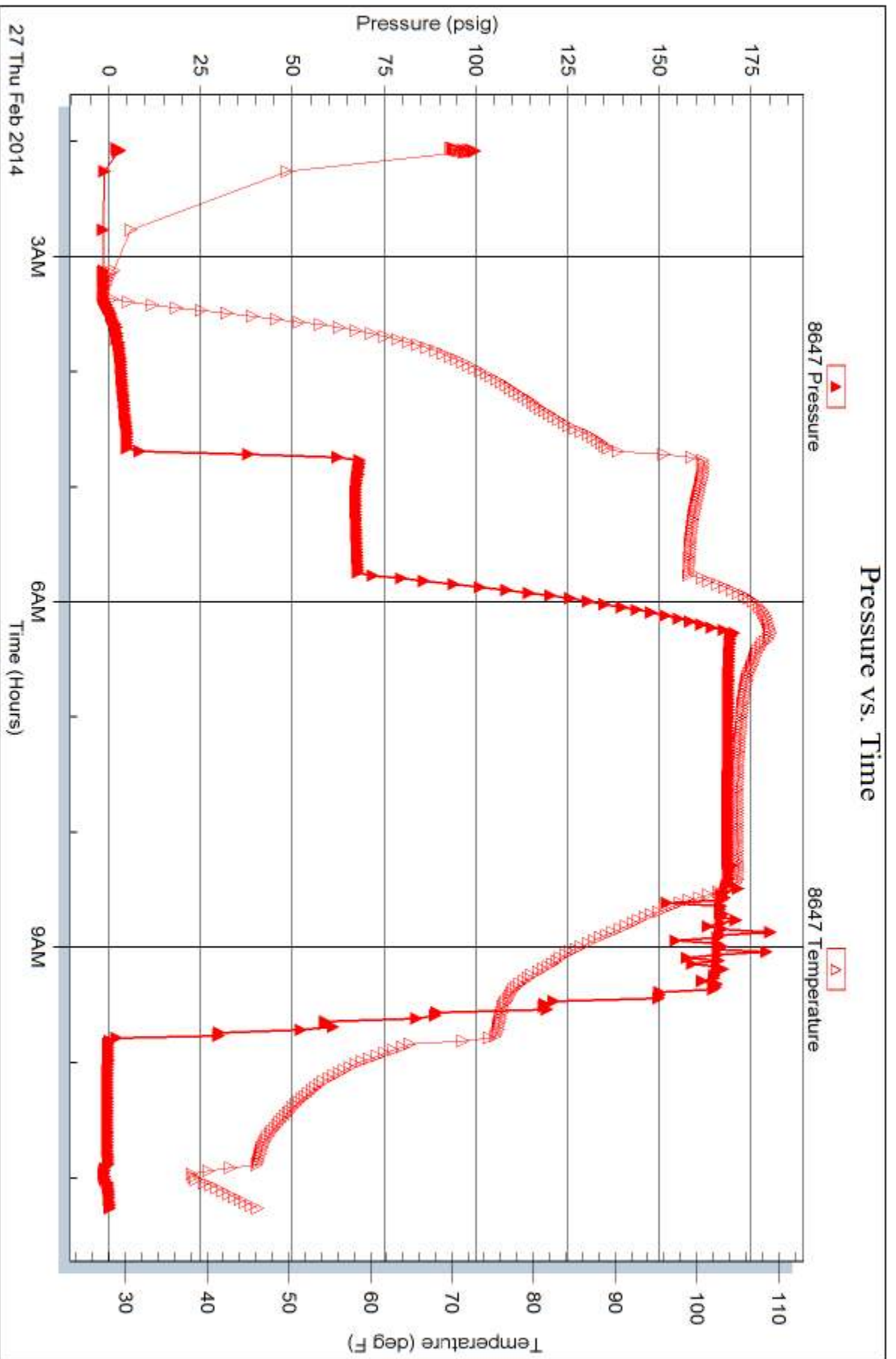
Serial #: 8647

Fluid

Samuel Gary Jr. & Associates, Inc.

John Nilnas 1-31

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55378

Printed: 2014.02.27 @ 11:38:04