



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

**36-16s-16w-Rush Co KS**

1515 Wynknopp, STE 700  
Denver CO, 80202

**Schneider #1-36**

Job Ticket: 53984

**DST#: 2**

ATTN: Kurt Strube

Test Start: 2013.06.29 @ 06:35:45

## GENERAL INFORMATION:

Formation: **Lansing F zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:05

Time Test Ended: 14:10:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 68

**Interval: 3361.00 ft (KB) To 3404.00 ft (KB) (TVD)**

Reference Elevations: 2010.00 ft (KB)

Total Depth: 3404.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8844**

**Inside**

Press @ Run Depth: 25.64 psig @ 3362.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.29

End Date:

2013.06.29

Last Calib.:

2013.06.29

Start Time: 06:35:50

End Time:

14:10:24

Time On Btm:

2013.06.29 @ 08:28:55

Time Off Btm:

2013.06.29 @ 12:04:24

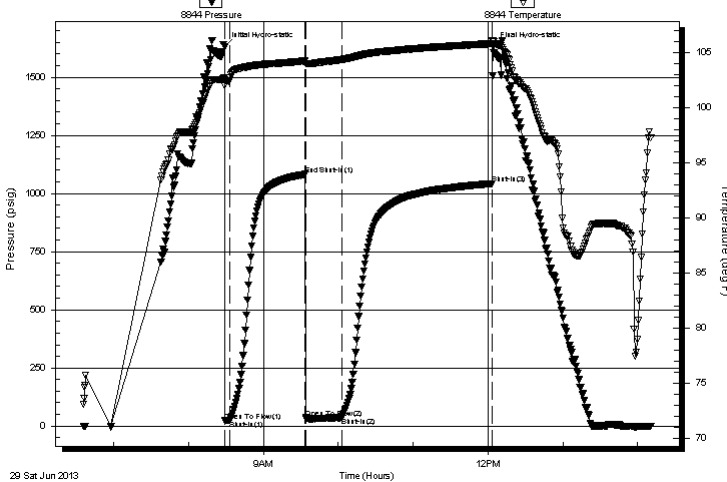
**TEST COMMENT:** Fair blow built to 4in.

Dead no blow back

B.O.B. In 30 sec.

Weak surface blow back built to 1 in. died back to weak surface blow

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1630.38         | 102.71       | Initial Hydro-static |
| 1           | 22.59           | 102.00       | Open To Flow (1)     |
| 5           | 25.64           | 102.66       | Shut-In(1)           |
| 65          | 1082.38         | 104.22       | End Shut-In(1)       |
| 65          | 33.72           | 104.00       | Open To Flow (2)     |
| 94          | 37.48           | 104.36       | Shut-In(2)           |
| 215         | 1042.63         | 105.80       | Shut-In(3)           |
| 216         | 1633.33         | 106.00       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 5.00        | 5%G 95%O      | 0.07         |
| 45.00       | 5%G 35%O 60%M | 0.63         |
| 0.00        | 550 GIP       | 0.00         |
|             |               |              |
|             |               |              |

\* Recovery from multiple tests

## Gas Rates

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



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**Schneider #1-36**

Job Ticket: 53984

**DST#: 2**

ATTN: Kurt Strube

Test Start: 2013.06.29 @ 06:35:45

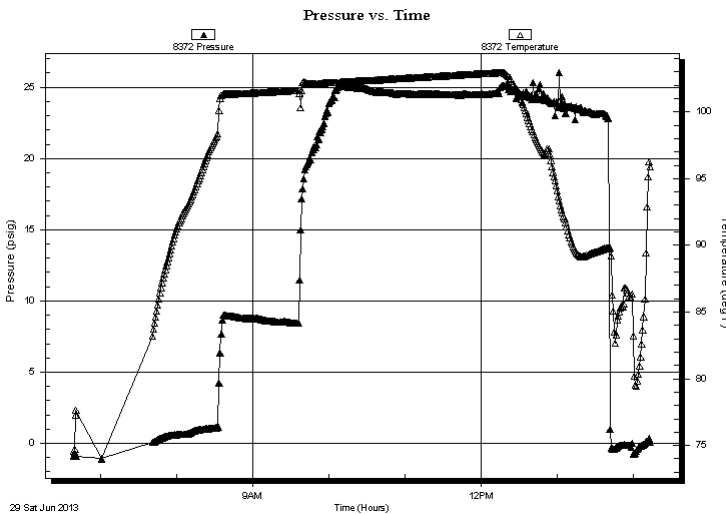
## GENERAL INFORMATION:

Formation: **Lansing F zone**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:29:05  
 Time Test Ended: 14:10:24  
**Interval: 3361.00 ft (KB) To 3404.00 ft (KB) (TVD)**  
 Total Depth: 3404.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 68  
 Reference Elevations: 2010.00 ft (KB)  
 2000.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8372

Press @RunDepth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.29 End Date: 2013.06.29 Last Calib.: 2013.06.29  
 Start Time: 06:38:41 End Time: 14:13:15 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** Fair blow built to 4in.  
 Dead no blow back  
 B.O.B. In 30 sec.  
 Weak surface blow back built to 1 in. died back to weak surface blow



## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 5.00        | 5%G 95%O      | 0.07         |
| 45.00       | 5%G 35%O 60%M | 0.63         |
| 0.00        | 550 GIP       | 0.00         |
|             |               |              |
|             |               |              |
|             |               |              |

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates

**36-16s-16w-Rush Co KS**

1515 Wynknopp, STE 700  
Denver CO, 80202

**Schneider #1-36**

Job Ticket: 53984

**DST#: 2**

ATTN: Kurt Strube

Test Start: 2013.06.29 @ 06:35:45

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 5.00         | 5%G 95%O      | 0.070         |
| 45.00        | 5%G 35%O 60%M | 0.631         |
| 0.00         | 550 GIP       | 0.000         |

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

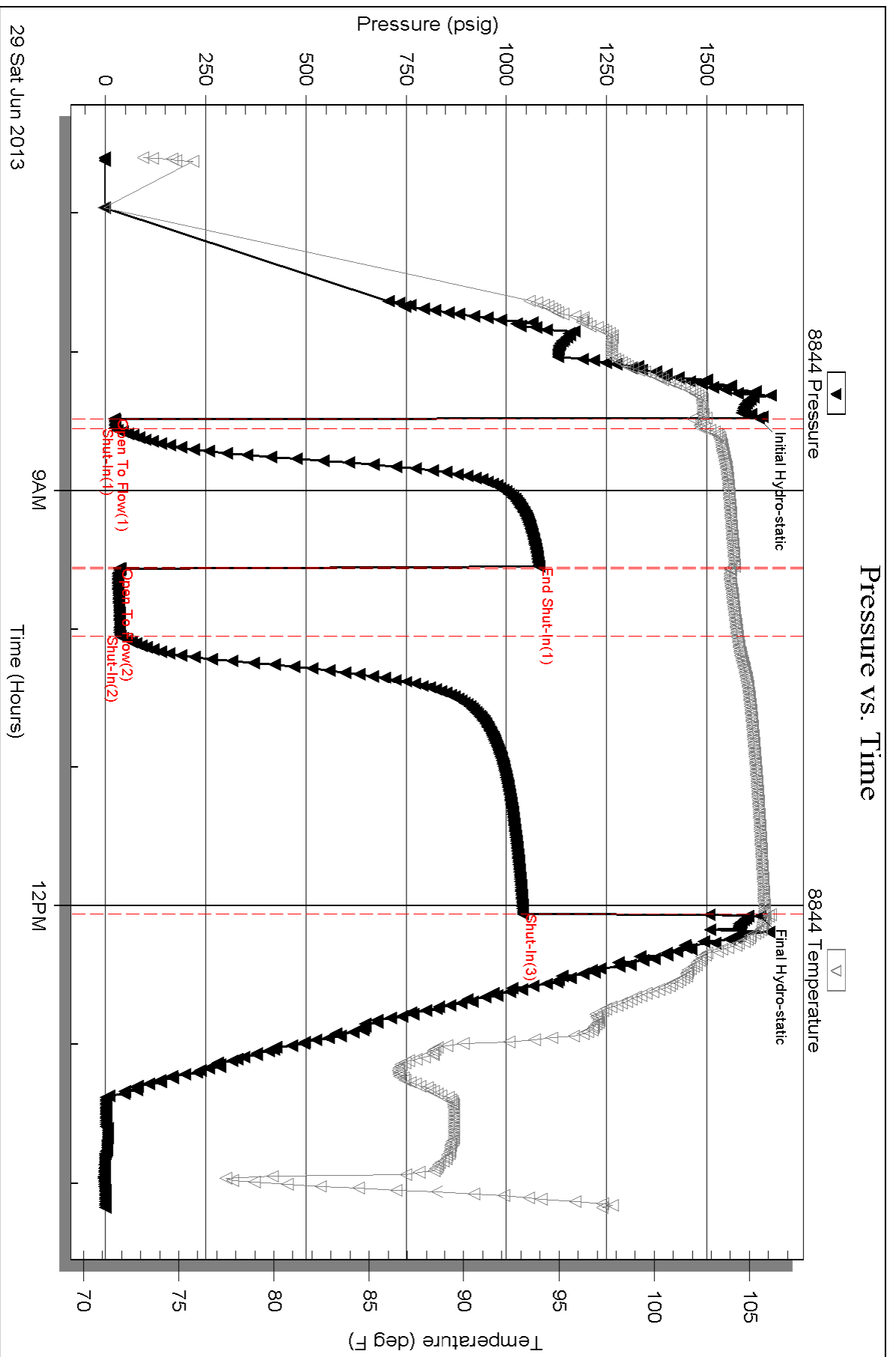
Num Gas Bombs: 0

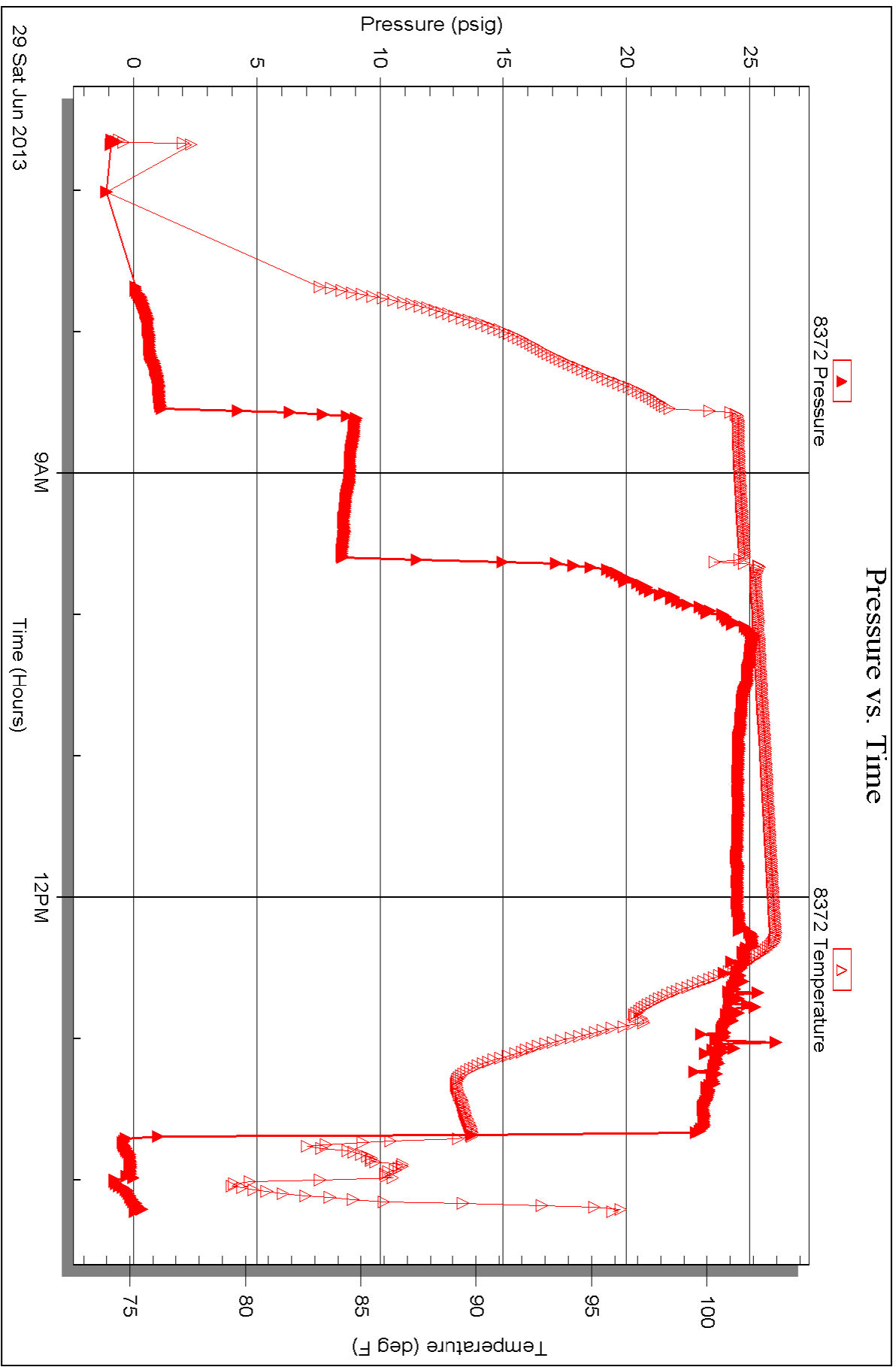
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





29 Sat Jun 2013

9AM

Time (Hours)

12PM