



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

**Willy Nilly #16A-32-916**

1515 Wynkoop STE 700  
Denver CO 80202+2062

**32-9s-16w Rooks KS**

Job Ticket: 65985

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2019.08.26 @ 15:10:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:18:47

Time Test Ended: 00:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

**Interval: 3148.00 ft (KB) To 3190.00 ft (KB) (TVD)**

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3190.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8374 Inside**

Press@RunDepth: 15.33 psig @ 3154.00 ft (KB)

Capacity: psig

Start Date: 2019.08.26 End Date: 2019.08.27

Last Calib.: 2019.08.27

Start Time: 15:10:01 End Time: 00:11:02

Time On Btm: 2019.08.26 @ 19:18:32

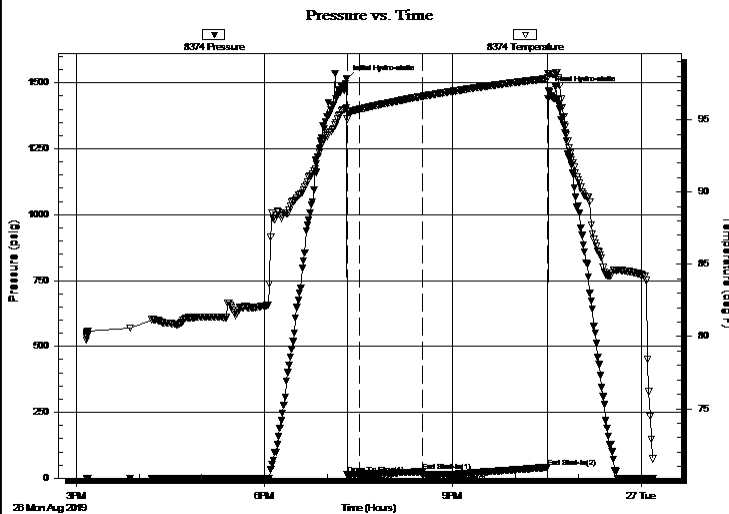
Time Off Btm: 2019.08.26 @ 22:31:32

TEST COMMENT: 10-IF-Weak; Built to 1&1/4"

60-ISI-No Return

30-FF-Weak Surface

90-FSI-No Return



## PRESSURE SUMMARY

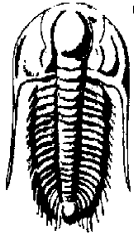
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1513.90	95.82	Initial Hydro-static
1	12.90	95.04	Open To Flow (1)
12	14.16	95.72	Shut-In(1)
72	24.36	96.62	End Shut-In(1)
73	14.90	96.62	Open To Flow (2)
101	15.33	96.96	Shut-In(2)
192	40.80	97.88	End Shut-In(2)
194	1469.58	98.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

## Gas Rates

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



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Time Tool Opened: 19:18:47

Time Test Ended: 00:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

**Interval: 3148.00 ft (KB) To 3190.00 ft (KB) (TVD)**

Total Depth: 3190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2053.00 ft (KB)

2045.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8372** **Inside**

Press@RunDepth: psig @ 3154.00 ft (KB)

Start Date: 2019.08.26 End Date: 2019.08.27

Start Time: 15:10:01 End Time: 00:11:02

Capacity: psig

Last Calib.: 2019.08.27

Time On Btm:

Time Off Btm:

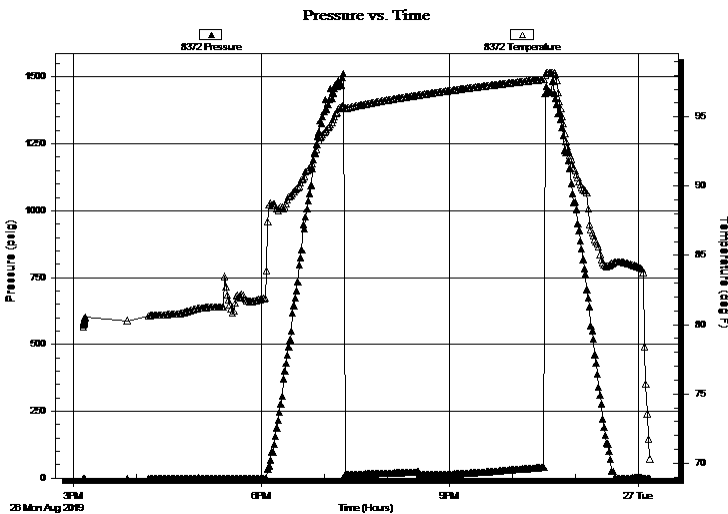
**TEST COMMENT:** 10-IF-Weak; Built to 1&1/4"

60-ISI-No Return

30-FF-Weak Surface

90-FSI-No Return

**PRESSURE SUMMARY**



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

**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

**Gas Rates**

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



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**32-9s-16w Rooks KS**

Job Ticket: 65985      **DST#: 1**

ATTN: Wyatt Urban

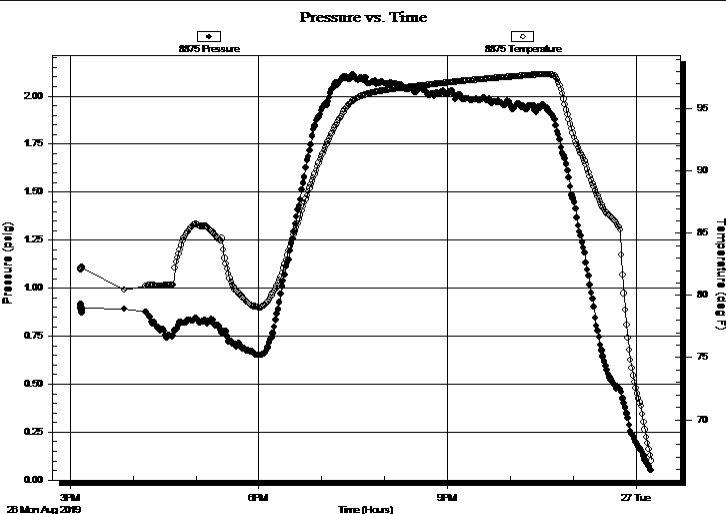
Test Start: 2019.08.26 @ 15:10:00

**GENERAL INFORMATION:**

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:18:47  
 Time Test Ended: 00:11:02  
 Interval: **3148.00 ft (KB) To 3190.00 ft (KB) (TVD)**  
 Total Depth: 3190.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2053.00 ft (KB)  
 2045.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8875 Fluid**  
 Press@RunDepth: psig @ 3112.00 ft (KB)  
 Capacity: psig  
 Start Date: 2019.08.26 End Date: 2019.08.27 Last Calib.: 2019.08.27  
 Start Time: 15:10:01 End Time: 00:15:02 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 10-IF-Weak; Built to 1&1/4"  
 60-ISI-No Return  
 30-FF-Weak Surface  
 90-FSI-No Return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

**Gas Rates**

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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Denver CO 80202+2062

**32-9s-16w Rooks KS**

Job Ticket: 65985

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2019.08.26 @ 15:10:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%M	0.015

Total Length: 2.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

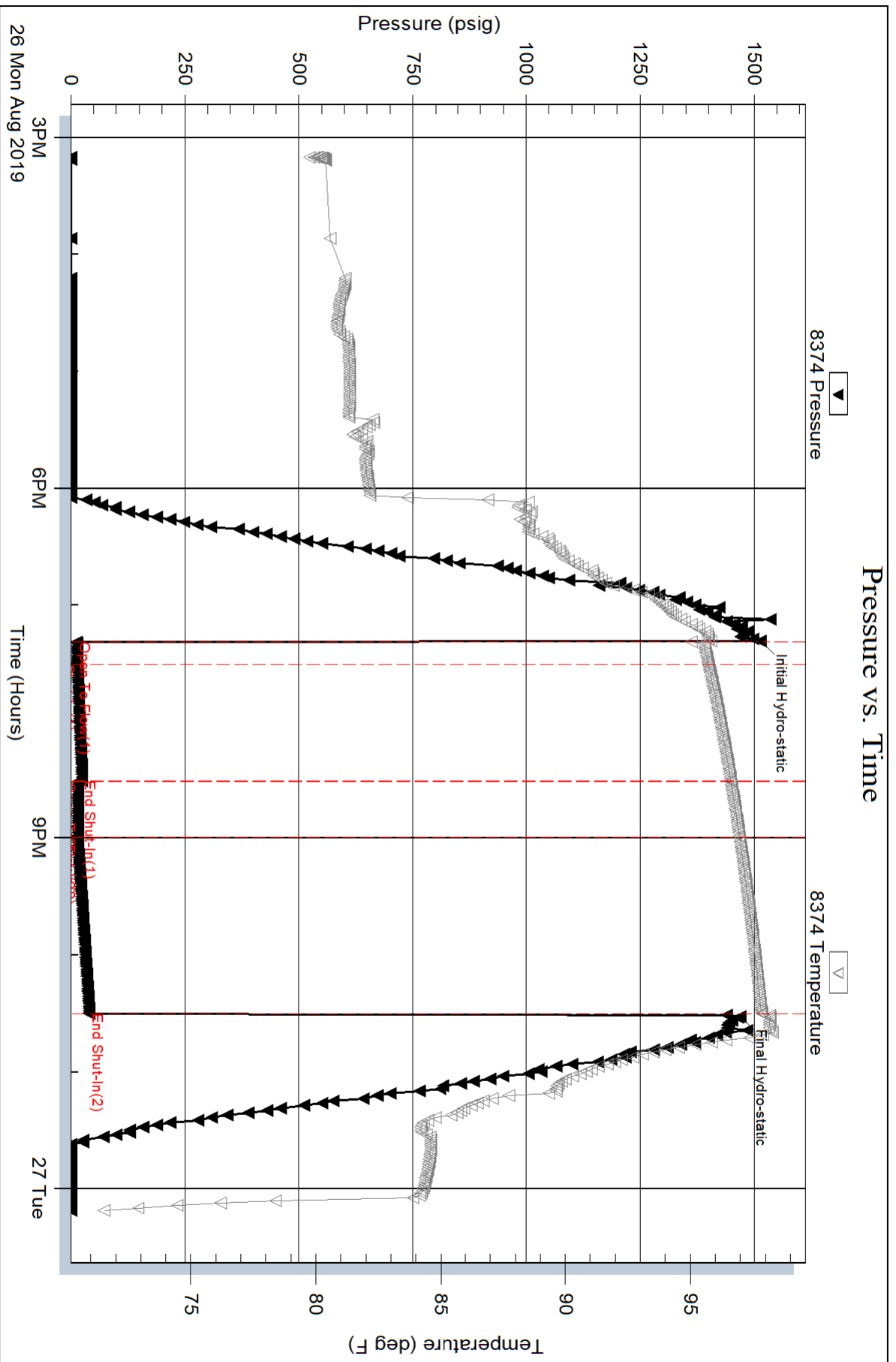
Laboratory Name:

Laboratory Location:

Recovery Comments: 1&1/2#

Sampler= 100mL Mud 100%M @25PSI

### Pressure vs. Time



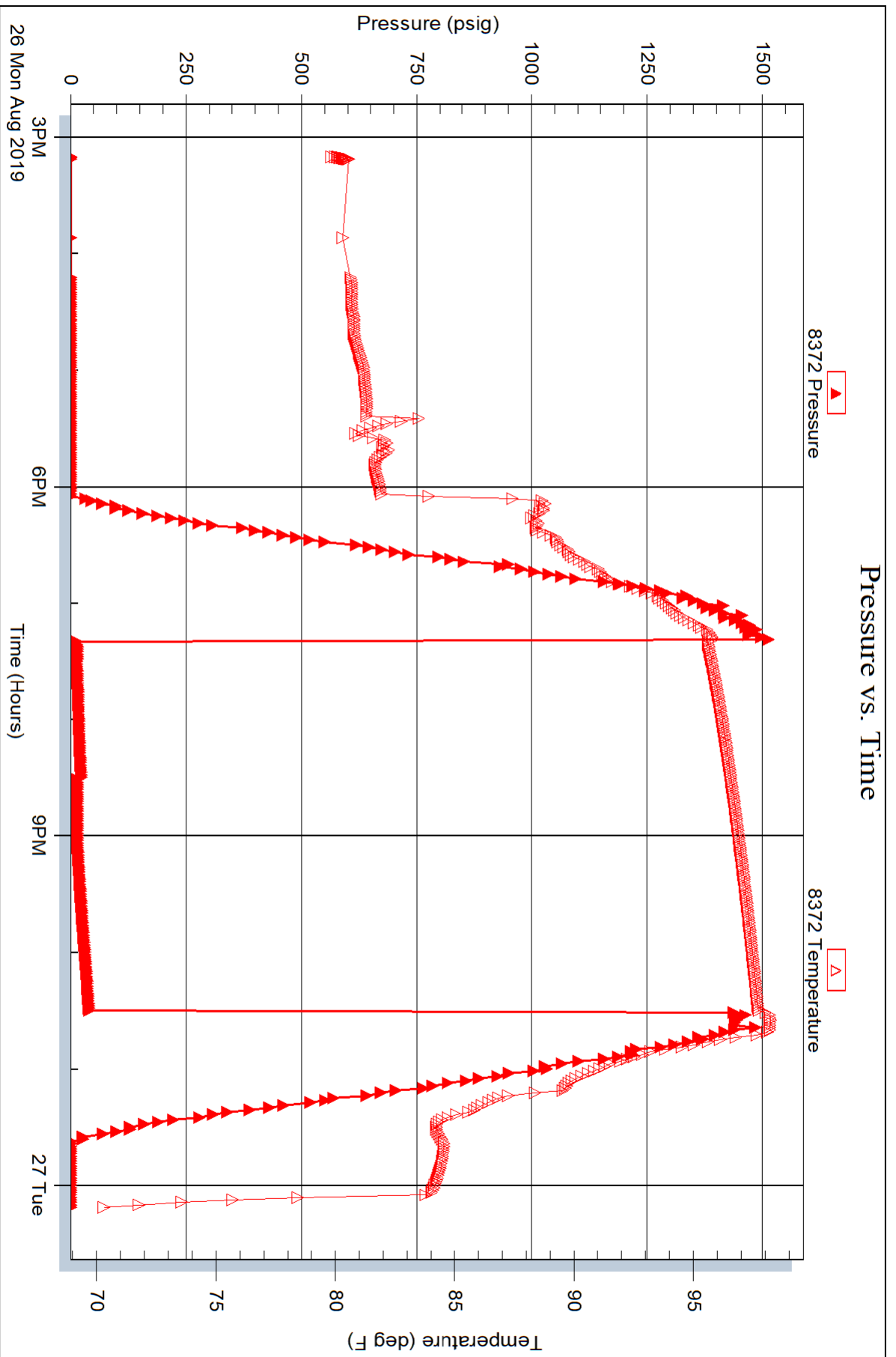
Serial #: 8372

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 1



Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 1

