



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary Jr & Associates Inc.

**1 5 24w Norton Ks.**

1515 Wynkoop  
STE 700 Denver Co. 80202

**Neurnberger #1-1**

Job Ticket: 56813

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2014.03.25 @ 02:10:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:18:30

Time Test Ended: 09:20:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3465.00 ft (KB) To 3494.00 ft (KB) (TVD)**

Reference Elevations: 2373.00 ft (KB)

Total Depth: 3494.00 ft (KB) (TVD)

2363.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8673 Inside**

Press@RunDepth: 36.78 psig @ 3466.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.25

End Date:

2014.03.25

Last Calib.:

2014.03.25

Start Time: 02:10:05

End Time:

09:20:29

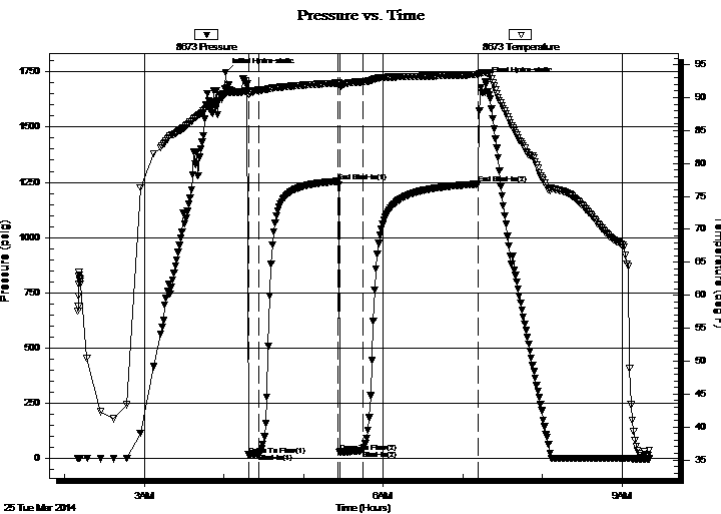
Time On Btm:

2014.03.25 @ 04:01:30

Time Off Btm:

2014.03.25 @ 07:17:00

**TEST COMMENT:** IF: Weak blow surface over 5 mins.  
IS: No blow back  
FF: Weak surface blow after 5 mins. Stayed at surface over the next 15 mins.  
FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.71	90.59	Initial Hydro-static
17	16.36	90.44	Open To Flow (1)
25	22.06	91.14	Shut-In(1)
85	1254.90	92.21	End Shut-In(1)
86	28.20	91.83	Open To Flow (2)
103	36.78	92.39	Shut-In(2)
190	1242.47	93.48	End Shut-In(2)
196	1707.53	93.83	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	sampler-- 1400- HO 600M 75 PSI	0.00
25.00	HMCO-70%o30%m	0.12

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



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Unit No: 61

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Total Depth: 3494.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2373.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8791 Fluid**

Press@RunDepth: psig @ 3430.00 ft (KB)

Start Date: 2014.03.25

End Date:

2014.03.25

Start Time: 02:10:01

End Time:

09:26:30

Capacity: 8000.00 psig

Last Calib.:

2014.03.25

Time On Btm:

Time Off Btm:

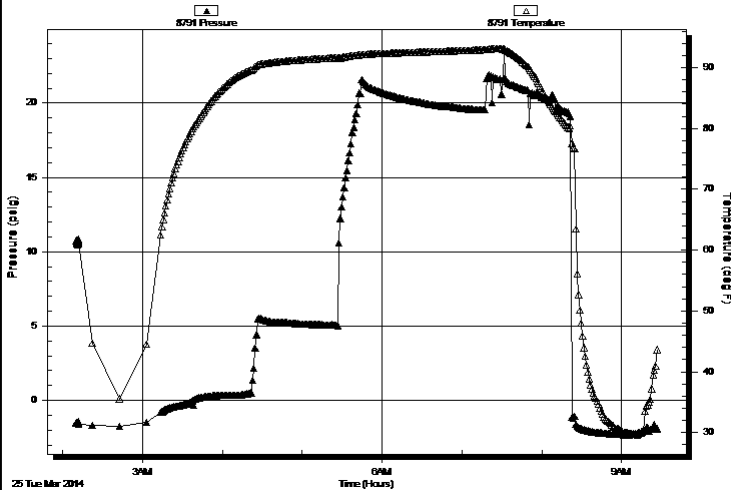
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IS: No blow back

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FS: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	sampler-- 1400- HO 600M 75 PSI	0.00
25.00	HMCO-70%o30%m	0.12

## Gas Rates

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



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# DRILL STEM TEST REPORT

## FLUID SUMMARY

Sam Gary Jr & Associates Inc.

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1515 Wynkoop  
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**Neurnberger #1-1**

Job Ticket: 56813

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2014.03.25 @ 02:10:00

### 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: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 67.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	sampler-- 1400- HO 600M 75 PSI	0.000
25.00	HMCO-70%o30%m	0.123

Total Length: 25.00 ft      Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8673

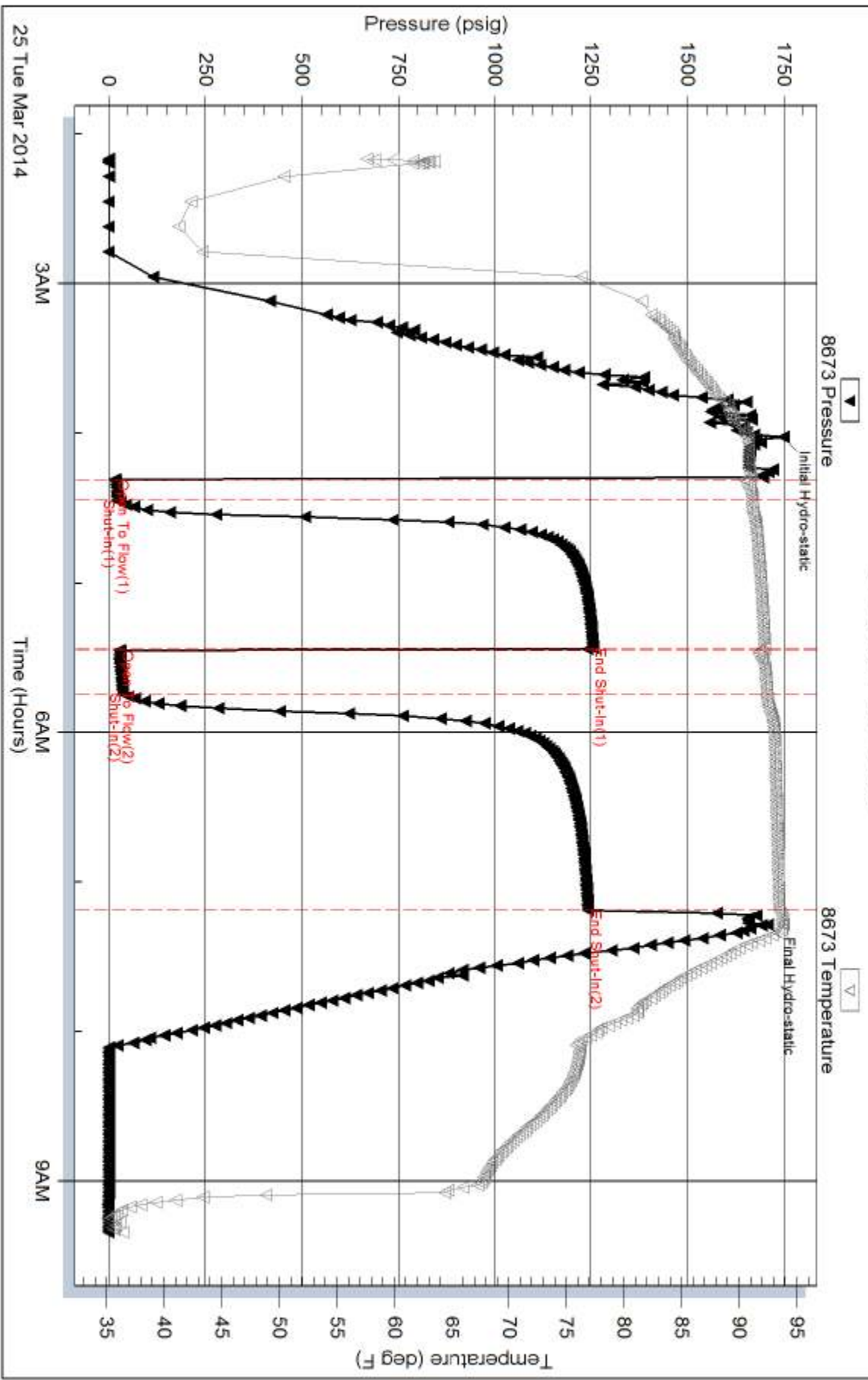
Inside

Sam Gary Jr & Associates Inc.

Neumberger #1-1

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56813

Printed: 2014.03.25 @ 11:37:54

Serial #: 8791

Fluid

Sam Gary Jr & Associates Inc.

Neumberger #1-1

DST Test Number: 1

