



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc. Inc.

**19 11s 21w Trego**

1515 Wynkoop Ste 700  
Denver CO 80202

**Nilhas Trusts # 1-19**

ATTN: Chris Mitchell

Job Ticket: 56015

**DST#: 1**

Test Start: 2014.03.09 @ 06:57:00

## GENERAL INFORMATION:

Formation: **LKC " A - C "**

Deviated: No Whipstock: 2210.00 ft (KB)

Time Tool Opened: 09:06:45

Time Test Ended: 14:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 3500.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Reference Elevations: 2210.00 ft (KB)

Total Depth: 3565.00 ft (KB) (TVD)

2202.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: 55.44 psig @ 3501.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.09

End Date:

2014.03.09

Last Calib.:

2014.03.09

Start Time: 06:57:02

End Time:

14:48:00

Time On Btm:

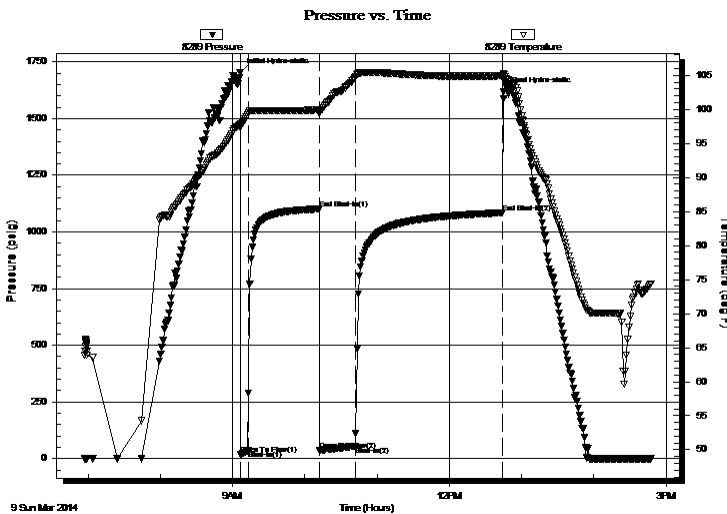
2014.03.09 @ 09:06:30

Time Off Btm:

2014.03.09 @ 12:44:45

**TEST COMMENT:** 5-IFP- Surface Blow Building to 1 1/2in.  
60-ISIP- Surface Blow Died in 15min.  
30-FFP- Surface Blow Building to 4 1/2in.  
120-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1703.89	97.87	Initial Hydro-static
1	18.56	97.43	Open To Flow (1)
7	34.88	99.23	Shut-In(1)
66	1101.29	99.95	End Shut-In(1)
66	36.59	99.39	Open To Flow (2)
96	55.44	104.64	Shut-In(2)
218	1084.65	104.94	End Shut-In(2)
219	1617.30	105.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
77.00	MCW 40% m 60% w	0.80

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc. Inc.

**19 11s 21w Trego**

1515 Wynkoop Ste 700  
Denver CO 80202

**Nilhas Trusts # 1-19**

ATTN: Chris Mitchell

Job Ticket: 56015

**DST#: 1**

Test Start: 2014.03.09 @ 06:57:00

## GENERAL INFORMATION:

Formation: **LKC " A - C "**

Deviated: No Whipstock: 2210.00 ft (KB)

Time Tool Opened: 09:06:45

Time Test Ended: 14:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 3500.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Reference Elevations: 2210.00 ft (KB)

Total Depth: 3565.00 ft (KB) (TVD)

2202.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 6668

Press @ Run Depth: psig @ 3468.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.09

End Date:

2014.03.09

Last Calib.:

2014.03.09

Start Time: 06:57:02

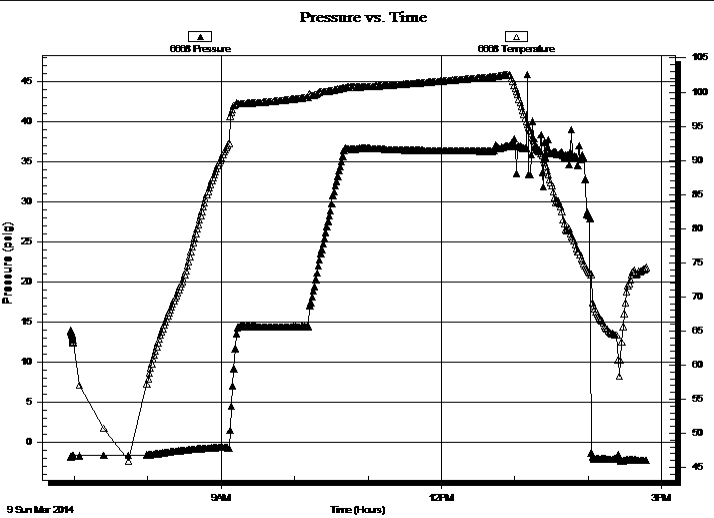
End Time:

14:47:45

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IFP- Surface Blow Building to 1 1/2in.  
60-ISIP- Surface Blow Died in 15min.  
30-FFP- Surface Blow Building to 4 1/2in.  
120-FSIP- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
77.00	MCW 40% m 60% w	0.80

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc. Inc.

**19 11s 21w Trego**

1515 Wynkoop Ste 700  
Denver CO 80202

**Nilhas Trusts # 1-19**

Job Ticket: 56015

**DST#: 1**

ATTN: Chris Mitchell

Test Start: 2014.03.09 @ 06:57:00

## GENERAL INFORMATION:

Formation: **LKC " A - C "**

Deviated: No Whipstock: 2210.00 ft (KB)

Time Tool Opened: 09:06:45

Time Test Ended: 14:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 3500.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Total Depth: 3565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2210.00 ft (KB)

2202.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8789** Inside

Press@RunDepth: psig @ 3501.00 ft (KB)

Start Date: 2014.03.09

End Date:

2014.03.09

Start Time: 06:57:02

End Time:

14:47:45

Capacity: 8000.00 psig

Last Calib.:

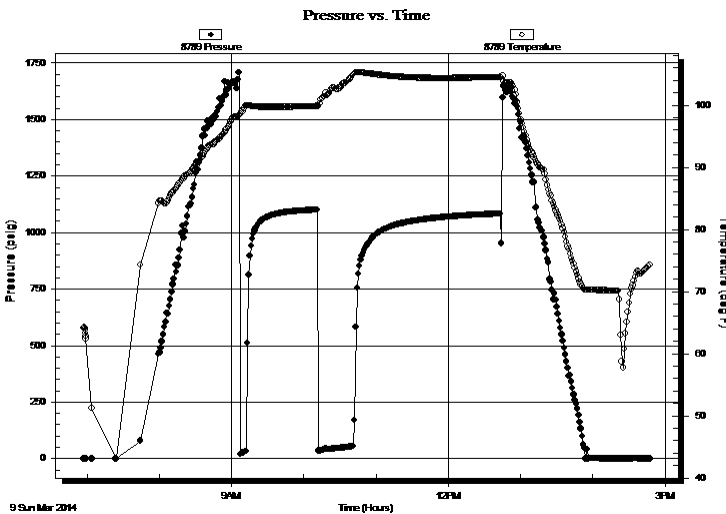
2014.03.09

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IFP- Surface Blow Building to 1 1/2in.  
60-ISIP- Surface Blow Died in 15min.  
30-FFP- Surface Blow Building to 4 1/2in.  
120-FSIP- No Blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
77.00	MCW 40% m 60% w	0.80

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Assoc. Inc.

**19 11s 21w Trego**

1515 Wynkoop Ste 700  
Denver CO 80202

**Nilhas Trusts # 1-19**

Job Ticket: 56015

**DST#: 1**

ATTN: Chris Mitchell

Test Start: 2014.03.09 @ 06:57:00

## 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:

47000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
77.00	MCW 40%m 60%w	0.798

Total Length: 77.00 ft      Total Volume: 0.798 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

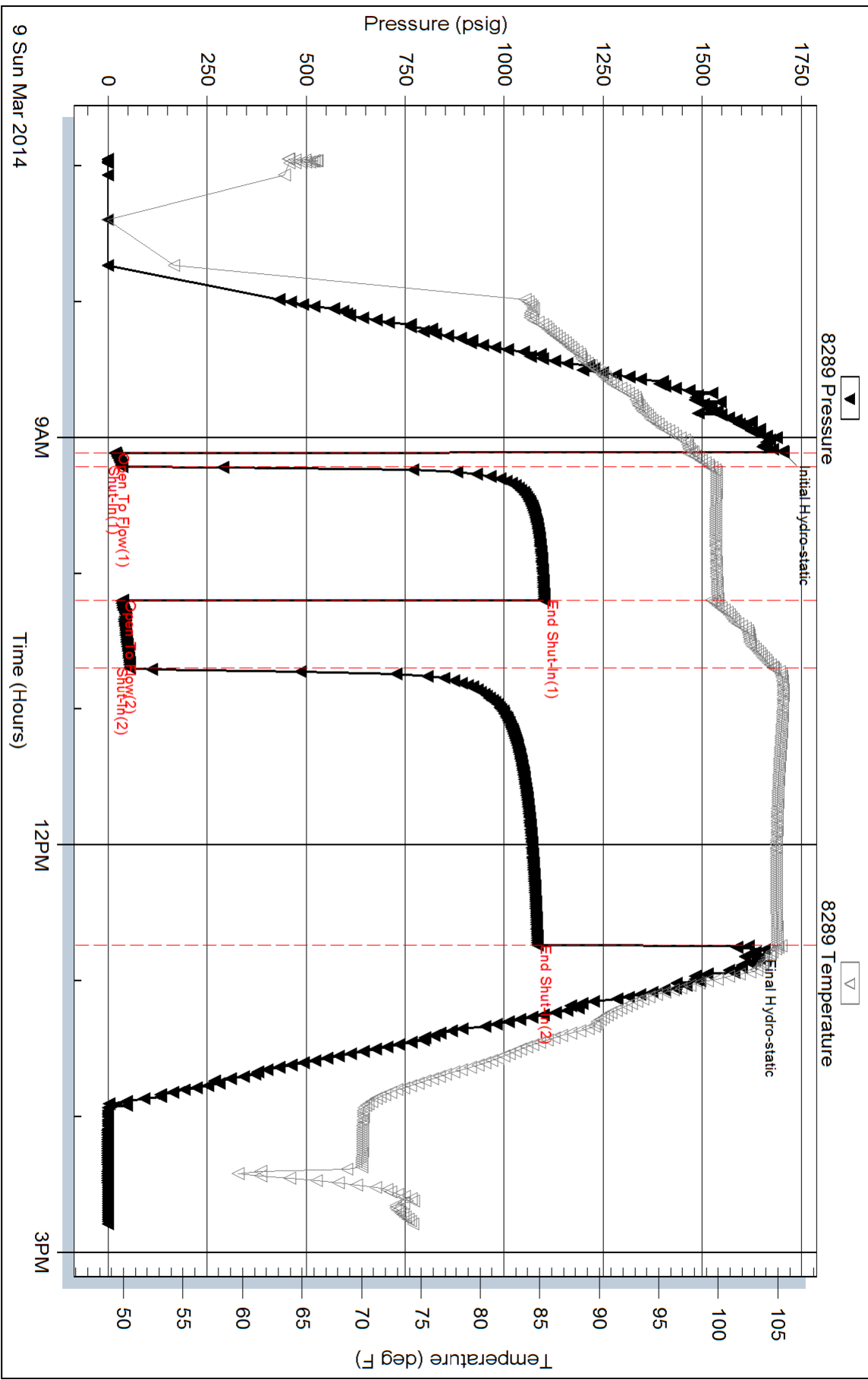
Serial #:

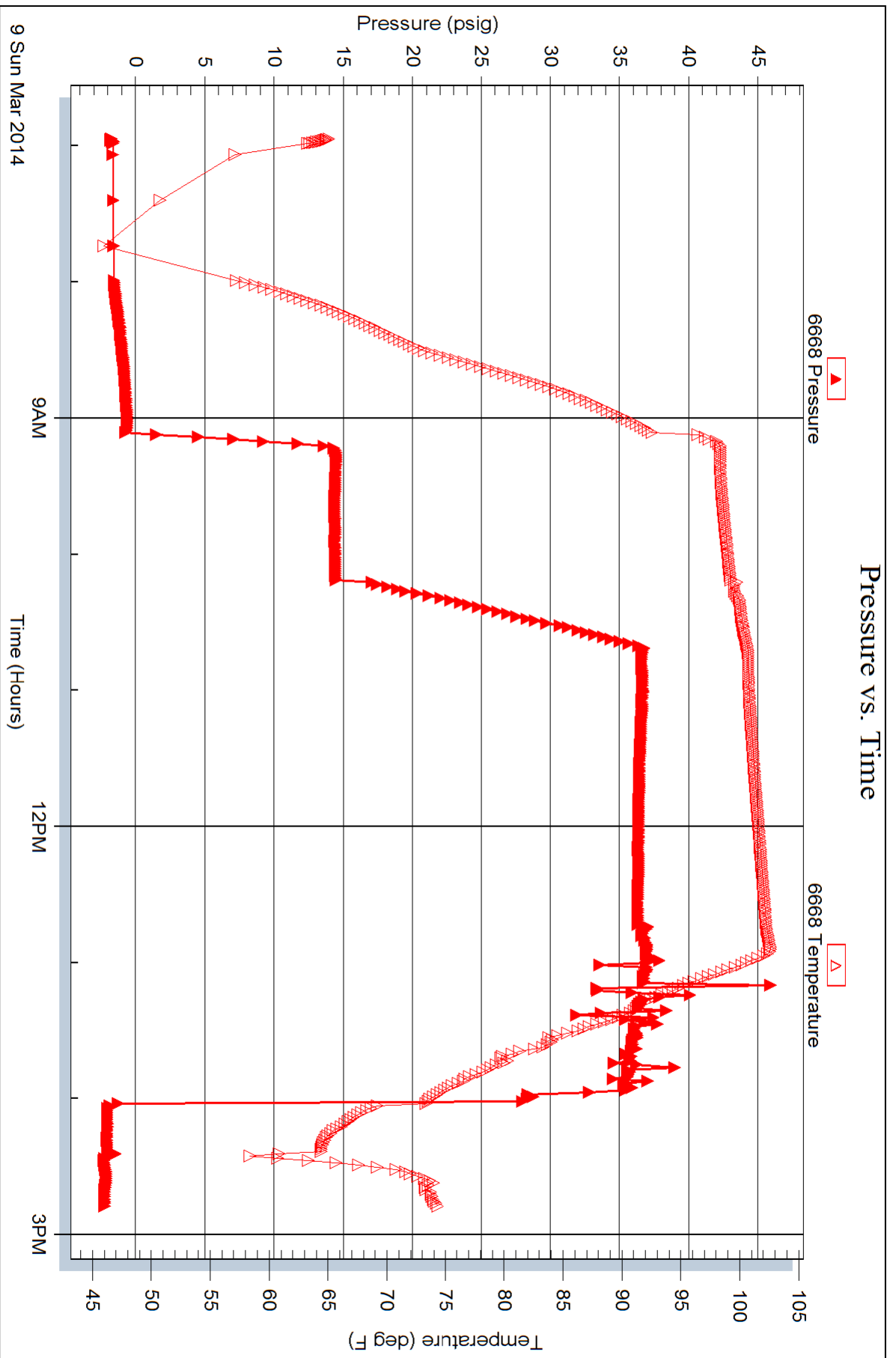
Laboratory Name:

Laboratory Location:

Recovery Comments: .160 @ 70

### Pressure vs. Time





Serial #: 8789

Inside

Samuel Gary Jr & Assoc. Inc.

Nilbas Trusts # 1-19

DST Test Number: 1

