



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**22 12s 17w Ellis**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**Virginia 1-22**

ATTN: Clayton Camozzi

Job Ticket: 52072

**DST#: 2**

Test Start: 2013.04.01 @ 13:18:00

## GENERAL INFORMATION:

Formation: **LKC " F & mid. G "**  
 Deviated: No Whipstock: 2121.00 ft (KB)  
 Time Tool Opened: 15:18:10  
 Time Test Ended: 21:45:00  
 Interval: **3436.00 ft (KB) To 3481.00 ft (KB) (TVD)**  
 Total Depth: 3481.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 41  
 Reference Elevations: 2121.00 ft (KB)  
 2113.00 ft (CF)  
 KB to GR/CF: 8.00 ft

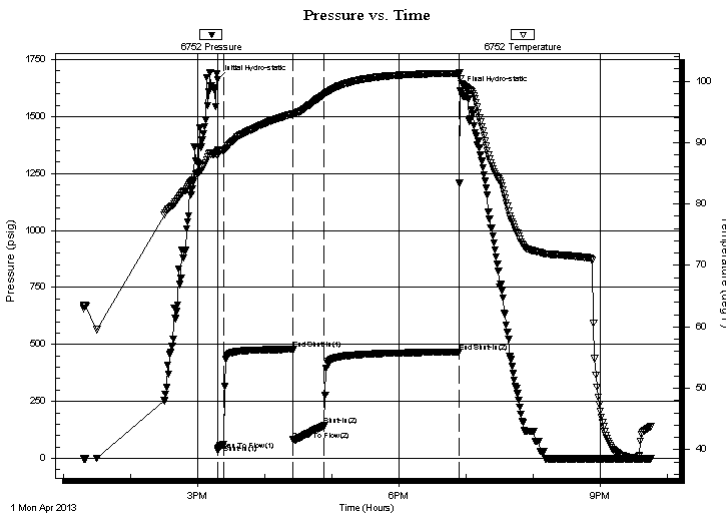
## Serial #: 6752

Inside

Press @ Run Depth: 143.46 psig @ 3443.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.04.01 End Date: 2013.04.01 Last Calib.: 2013.04.01  
 Start Time: 13:18:01 End Time: 21:45:10 Time On Btm: 2013.04.01 @ 15:17:50  
 Time Off Btm: 2013.04.01 @ 18:54:20

**TEST COMMENT:** 5-IFP- BOB in 3 1/2 min.  
 60-ISIP- Surface Blow Died in 12 min.  
 30-FFP- BOB in 5 min.  
 120-FSIP- Surface Blow in 1 min. 5 in. Blow in 24 min. BOB in 79 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.51	88.75	Initial Hydro-static
1	33.92	88.52	Open To Flow (1)
6	60.64	88.74	Shut-In(1)
67	478.30	94.66	End Shut-In(1)
68	81.09	94.65	Open To Flow (2)
96	143.46	97.84	Shut-In(2)
216	467.14	101.29	End Shut-In(2)
217	1612.45	101.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
118.00	GOMCW 10%g 2%o 5%m 83%w	1.38
134.00	GMWCO 10%g 10%m 30%w 50%o	1.88
62.00	GWMCO 10%g 10%w 25%m 55%o	0.87
0.00	504 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



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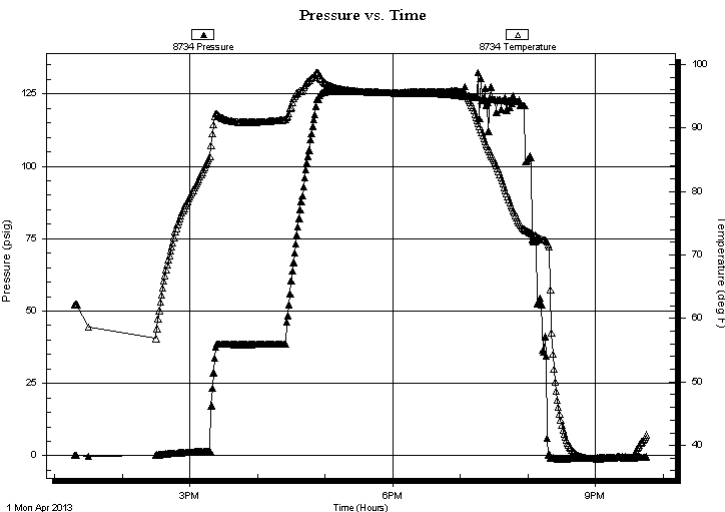
Test Start: 2013.04.01 @ 13:18:00

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 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 41  
 Reference Elevations: 2121.00 ft (KB)  
 2113.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8734 Fluid**  
 Press @ Run Depth: psig @ 3402.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.04.01 End Date: 2013.04.01 Last Calib.: 2013.04.01  
 Start Time: 13:18:01 End Time: 21:45:20 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 5-IFP- BOB in 3 1/2 min.  
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## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
118.00	GOMCW 10%g 2%o 5%m 83%w	1.38
134.00	GMWCO 10%g 10%m 30%w 50%o	1.88
62.00	GWMCO 10%g 10%w 25%m 55%o	0.87
0.00	504 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



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**FLUID SUMMARY**

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**Virginia 1-22**

Job Ticket: 52072

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2013.04.01 @ 13:18:00

## 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:

80000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
118.00	GOMCW 10%g 2%o 5%m 83%w	1.382
134.00	GMWCO 10%g 10%m 30%w 50%o	1.880
62.00	GWMCO 10%g 10%w 25%m 55%o	0.870
0.00	504 GIP	0.000

Total Length: 314.00 ft      Total Volume: 4.132 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

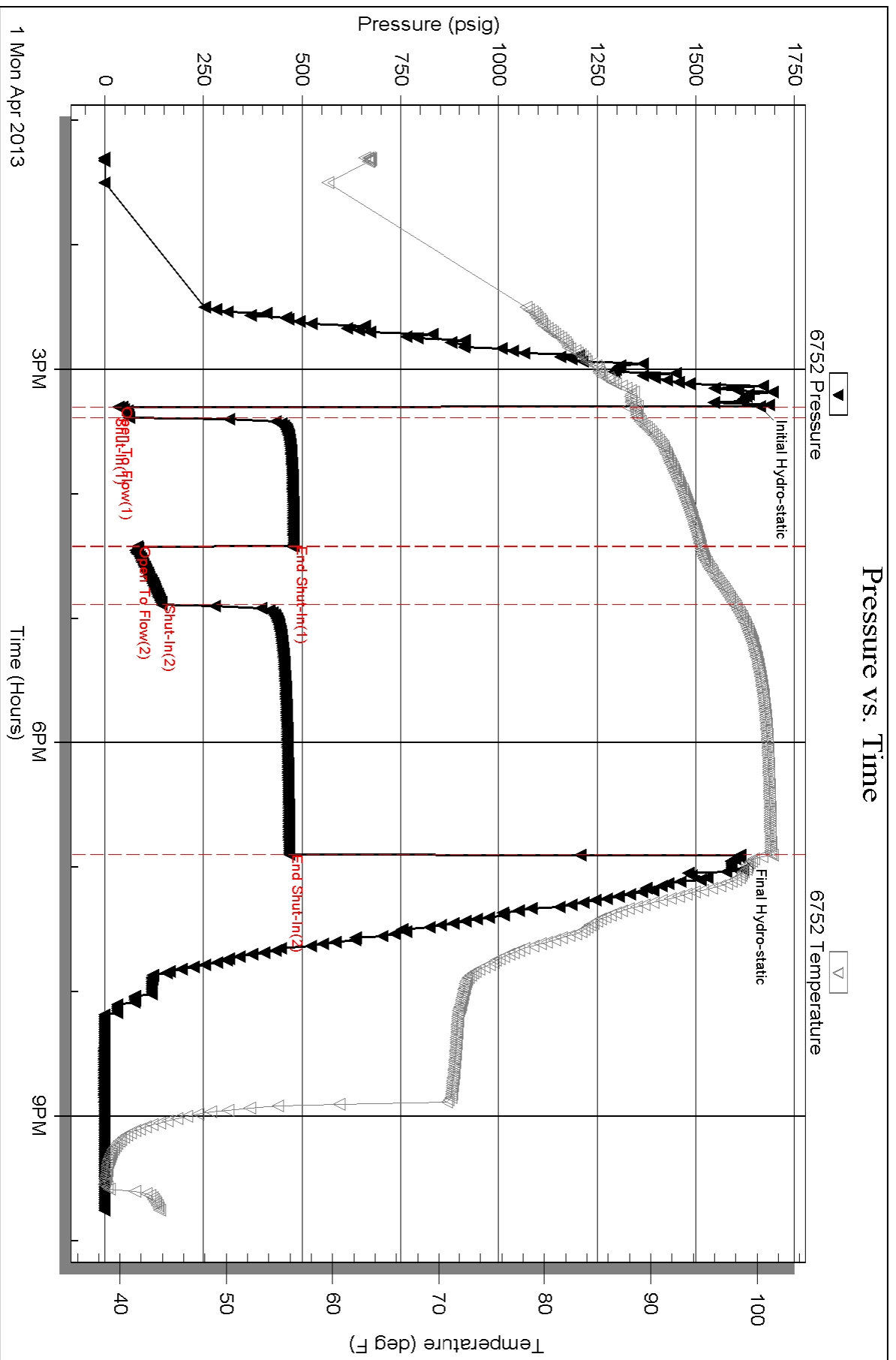
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER 2200ml CO 100% 210 psi 27 gravity  
.150 @ 46

### Pressure vs. Time



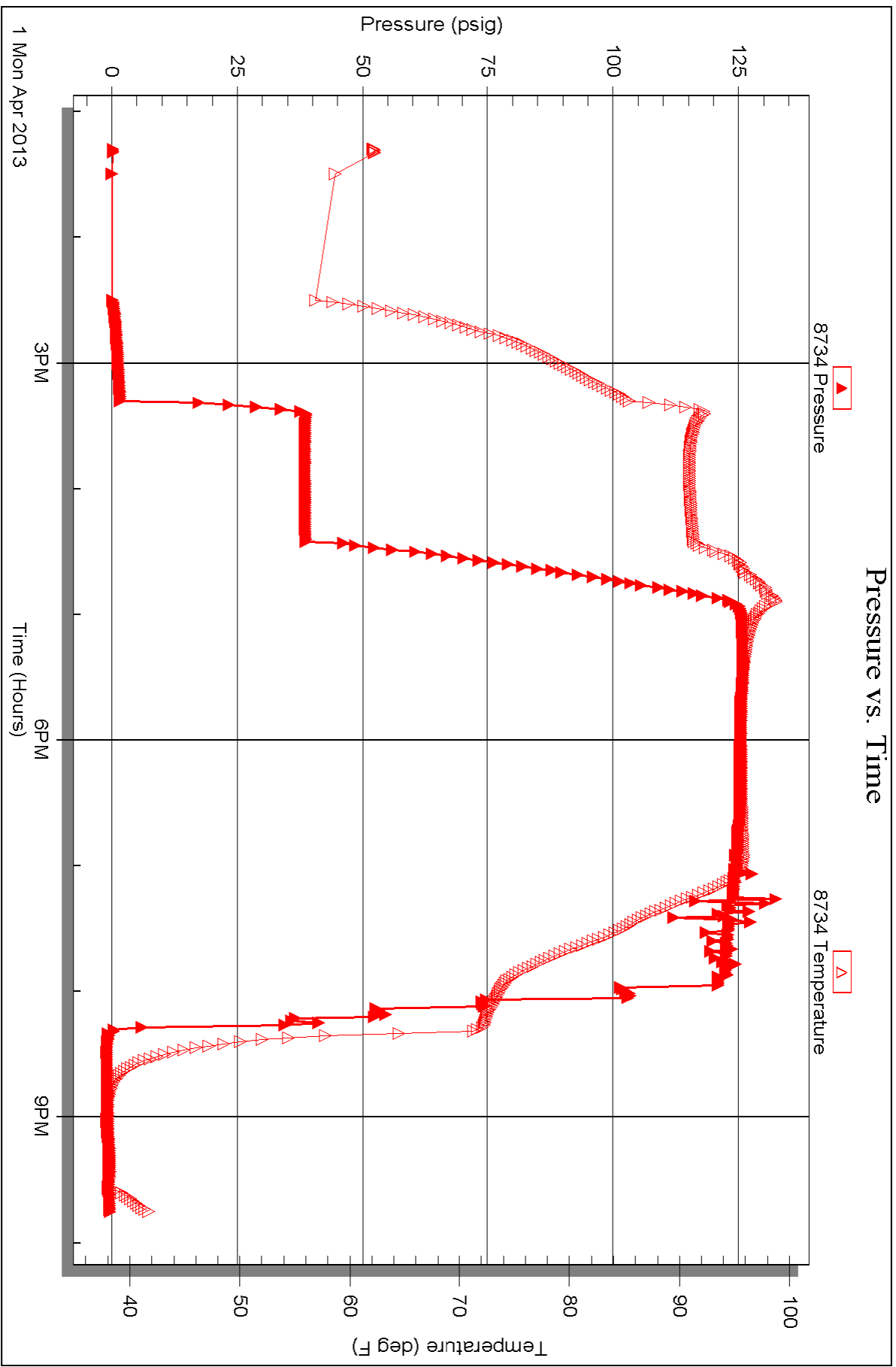
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Virginia 1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52072

Printed: 2013.04.01 @ 23:14:50