



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

22-12-17 Ellis, KS

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Bosch 1-22**

Job Ticket: 50811

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2013.07.20 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Lansing F&G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 54

Interval: **3427.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Reference Elevations: 2119.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2111.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8789

Press @ RunDepth: 718.68 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.20

End Date:

2013.07.21

Last Calib.: 2013.07.21

Start Time: 17:10:02

End Time:

01:15:45

Time On Btm: 2013.07.20 @ 19:32:00

Time Off Btm: 2013.07.20 @ 23:08:30

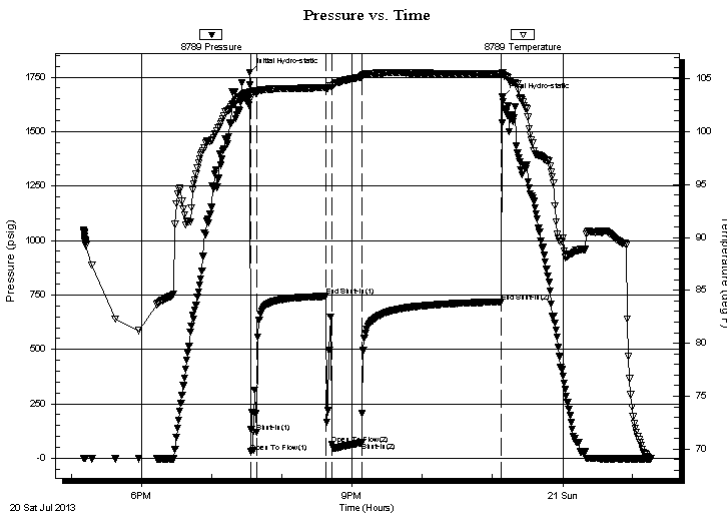
TEST COMMENT: 05- IF- 2.5"

60- IS- No blow

30- FF- BOB 25mins

120- FS- Weak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.85	103.71	Initial Hydro-static
1	30.01	103.17	Open To Flow (1)
7	119.58	103.59	Shut-In(1)
66	743.95	104.15	End Shut-In(1)
71	62.90	104.16	Open To Flow (2)
96	72.04	105.17	Shut-In(2)
216	718.68	105.43	End Shut-In(2)
217	1657.91	105.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCM, 100%Mw / oil spots	1.41

## Gas Rates

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







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## FLUID SUMMARY

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Test Start: 2013.07.20 @ 00:00:00

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SOCM, 100%Mw / oil spots	1.410

Total Length: 120.00 ft      Total Volume: 1.410 bbl

Num Fluid Samples: 0

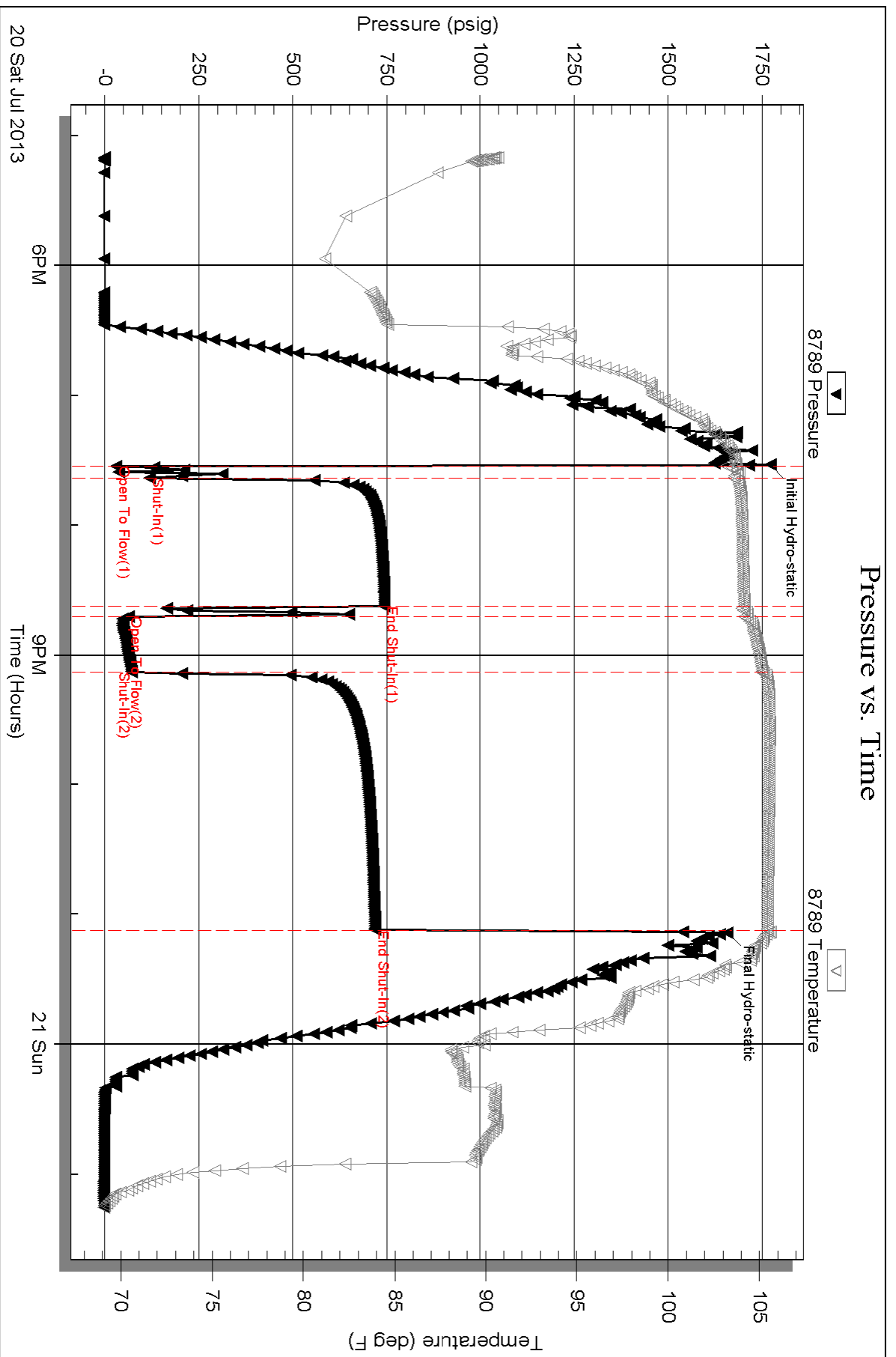
Num Gas Bombs: 0

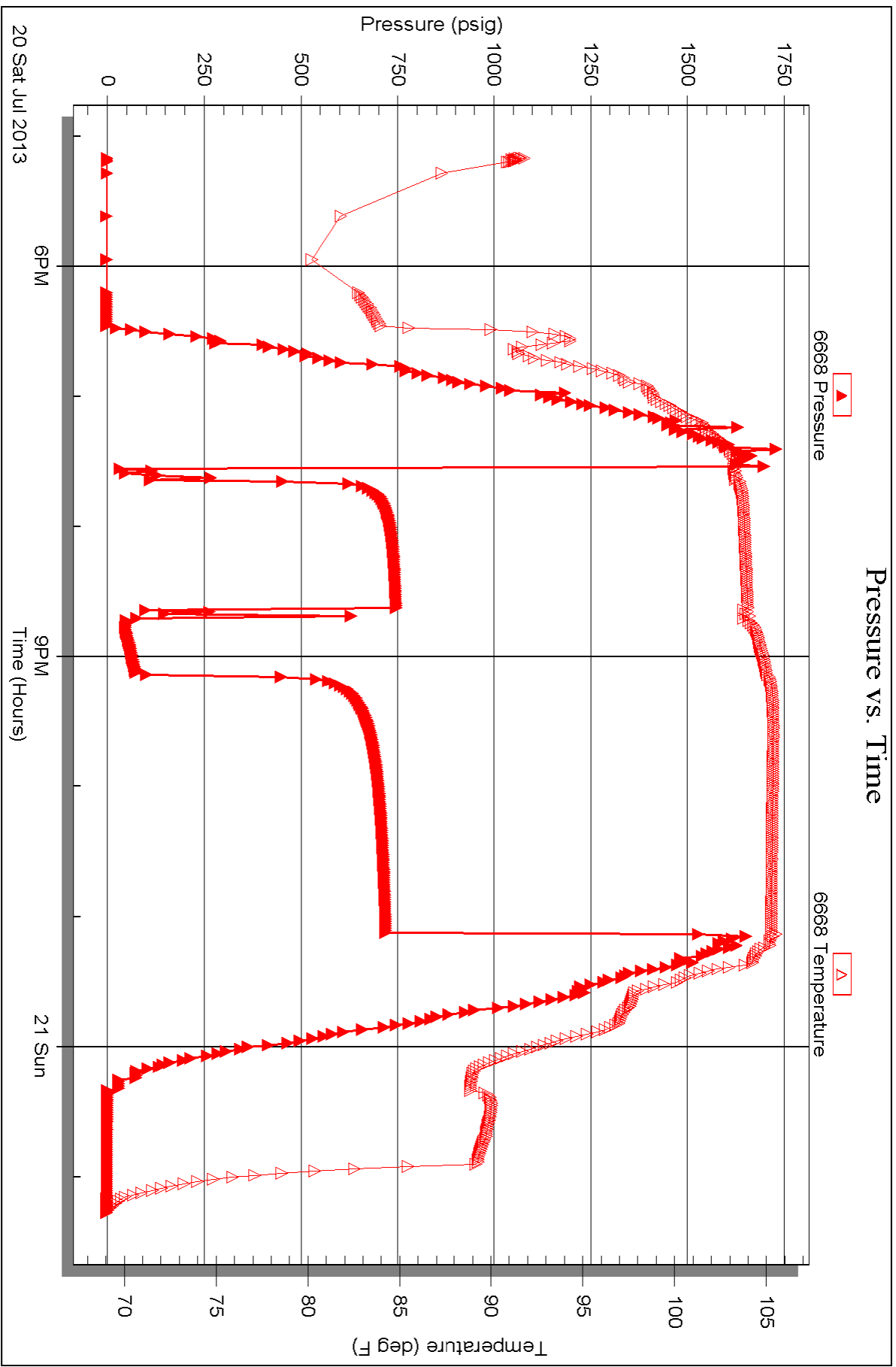
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 1500mL W 500mL O





Serial #: 8289

Outside Samuel Gary Jr. & Associates, Inc.

Bosch 1-22

DST Test Number: 1

