



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: 50812

DST#: 2

ATTN: Cayton Camozzi

Test Start: 2013.07.21 @ 22:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:13:30

Time Test Ended: 06:21:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Interval: 3652.00 ft (KB) To 3677.00 ft (KB) (TVD)

Reference Elevations: 2119.00 ft (KB)

Total Depth: 3677.00 ft (KB) (TVD)

2111.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press @ RunDepth: 32.64 psig @ 3674.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.21

End Date:

2013.07.22

Last Calib.:

2013.07.22

Start Time: 22:00:02

End Time:

06:21:15

Time On Btm:

2013.07.22 @ 01:12:15

Time Off Btm:

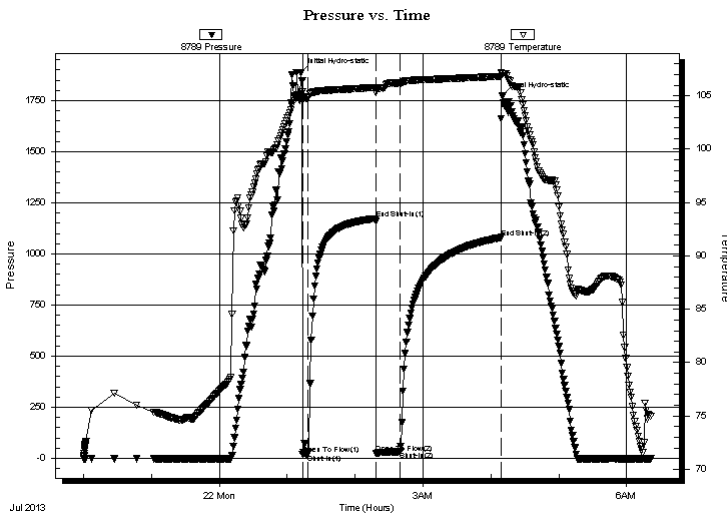
2013.07.22 @ 04:10:15

TEST COMMENT: 05- IF- 1"

60- IS- No blow

20- FF- .25"

90- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.87	105.15	Initial Hydro-static
2	20.74	104.54	Open To Flow (1)
6	22.16	104.82	Shut-In(1)
66	1173.12	105.80	End Shut-In(1)
67	25.07	105.28	Open To Flow (2)
88	32.64	106.19	Shut-In(2)
177	1080.88	106.83	End Shut-In(2)
178	1772.11	107.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
34.00	SOCM 5%O 95%M	0.19
1.00	O	0.01

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Test Start: 2013.07.21 @ 22:00:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

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
34.00	SOCM 5%O 95%M	0.195
1.00	O	0.014

Total Length: 35.00 ft Total Volume: 0.209 bbl

Num Fluid Samples: 0

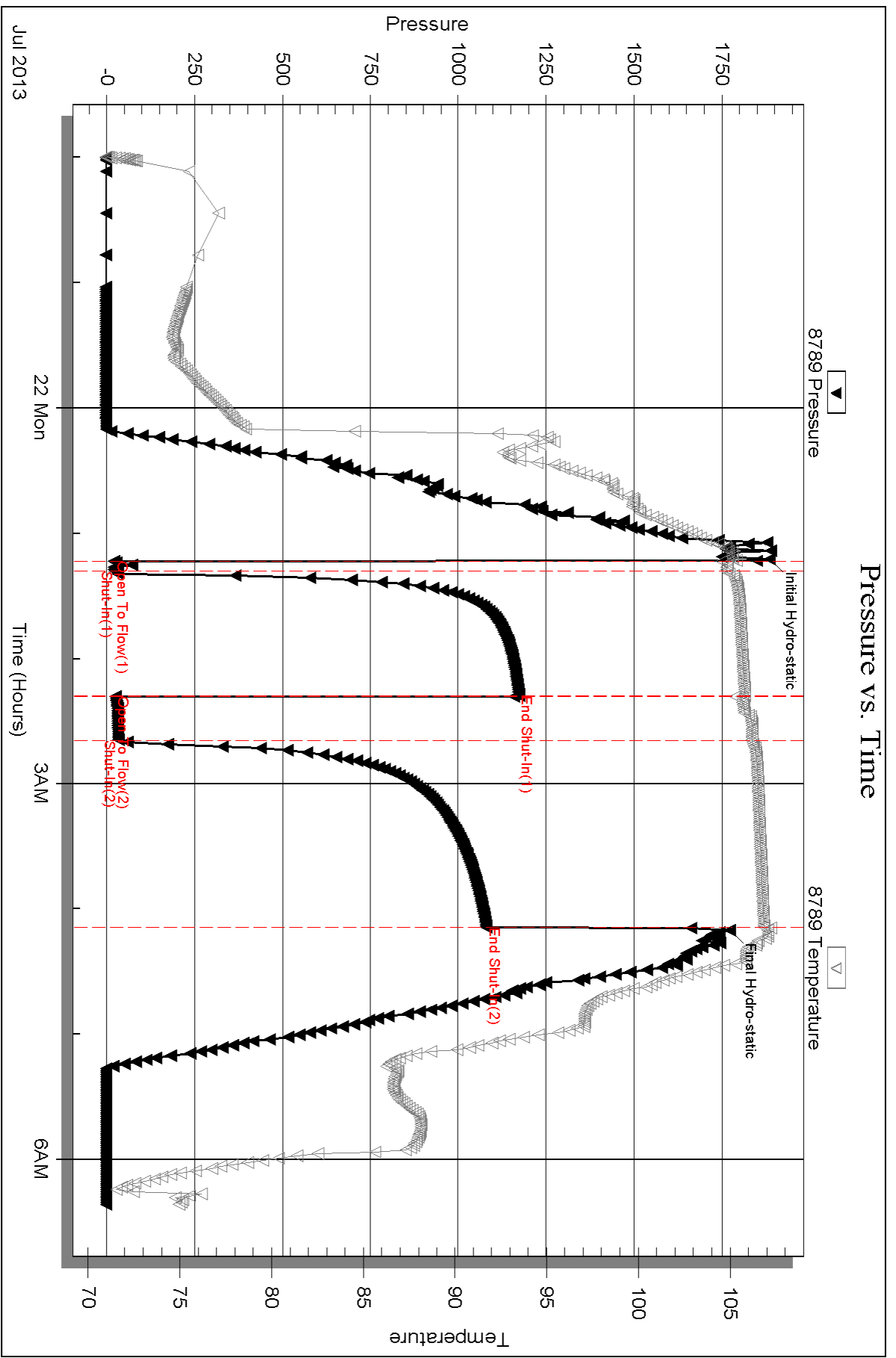
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Samper: 100mLO 1900mLM



Serial #: 6668

Fluid

Samuel Gary Jr. & Associates, Inc.

Bosch 1-22

DST Test Number: 2

