



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

Job Ticket: 53811

DST#: 3

ATTN: Chris Mitchell

Test Start: 2013.06.05 @ 06:00:00

GENERAL INFORMATION:

Formation: **LKC- J**

Deviated: No Whipstock: 2011.00 ft (KB)

Time Tool Opened: 08:18:30

Time Test Ended: 14:22:50

Test Type: Conventional Straddle (Initial)

Tester: Randy Williams

Unit No: 41

Interval: 3374.00 ft (KB) To 3400.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)

2001.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 64.74 psig @ 3375.00 ft (KB)

Start Date: 2013.06.05

End Date:

2013.06.05

Start Time: 06:00:01

End Time:

14:22:50

Capacity: 8000.00 psig

Last Calib.: 2013.06.05

Time On Btm: 2013.06.05 @ 08:18:10

Time Off Btm: 2013.06.05 @ 11:59:50

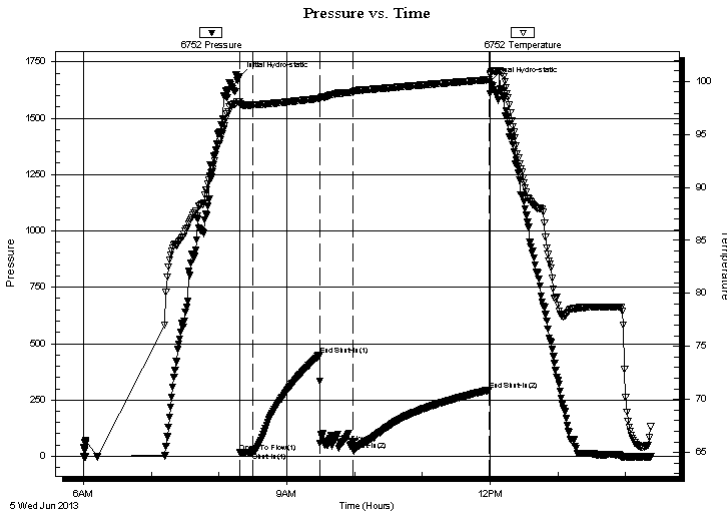
TEST COMMENT: IF-10- WSBB,Built to 1"

ISN-60- NBB

FF-30- No blow

FSN-120- NBB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.95	98.13	Initial Hydro-static
1	16.46	97.87	Open To Flow (1)
12	18.99	97.79	Shut-In(1)
71	450.15	98.38	End Shut-In(1)
71	56.12	98.32	Open To Flow (2)
101	64.74	98.98	Shut-In(2)
221	294.14	100.17	End Shut-In(2)
222	1661.90	100.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.14
0.00	3 SPECS OF OIL ON TOOL	0.00

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2013.06.05 @ 06:00:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%	0.140
0.00	3 SPECS OF OIL ON TOOL	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

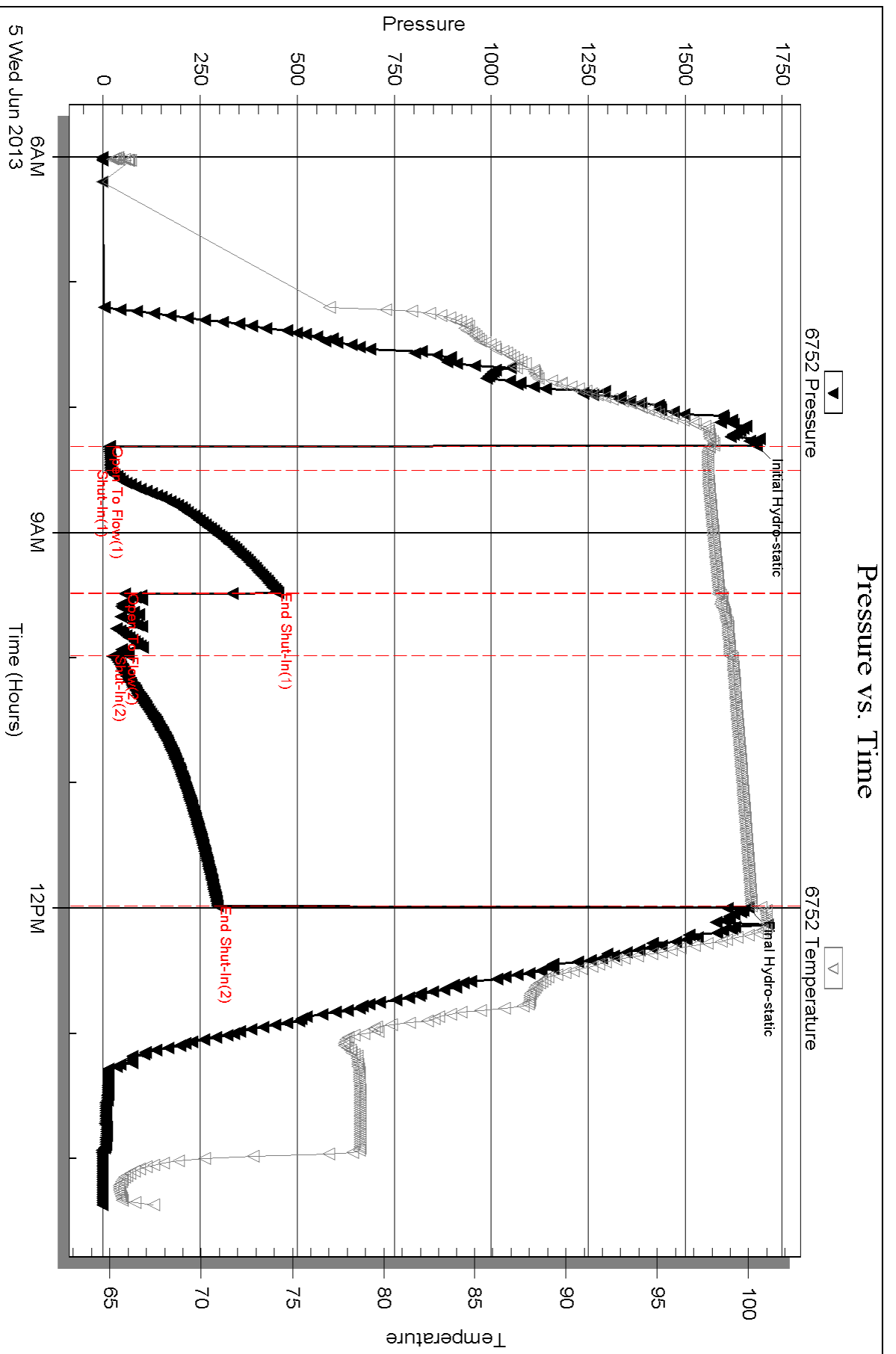
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER= 220 ML GAS 100 %, 175 PSI



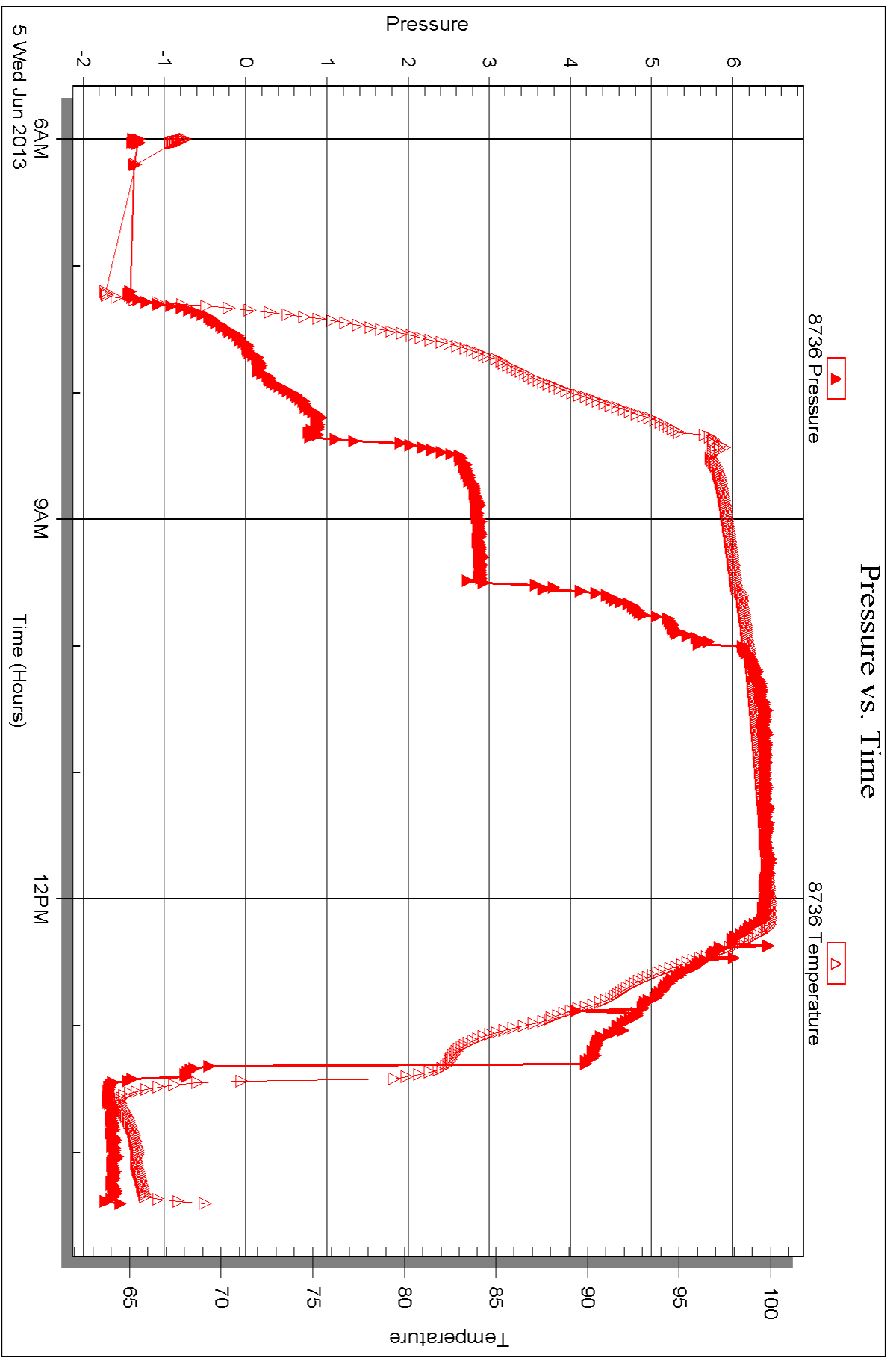
Serial #: 8736

Fluid

Samuel Gary Jr. and Associates, Inc.

Bob et al 1-32

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 53811

Printed: 2013.06.05 @ 15:06:13

