



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

15-12-17 Ellis, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Herman 1-15

ATTN: Clayton Camozzi

Job Ticket: 49283

DST#: 1

Test Start: 2012.08.07 @ 02:27:13

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:11:13

Time Test Ended: 10:05:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3510.00 ft (KB) To 3582.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 1582.00 ft (KB) (TVD)

2135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ RunDepth: 65.12 psig @ 3578.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07

End Date:

2012.08.07

Last Calib.:

2012.08.07

Start Time:

02:27:14

End Time:

10:05:43

Time On Btm:

2012.08.07 @ 04:10:13

Time Off Btm:

2012.08.07 @ 08:08:43

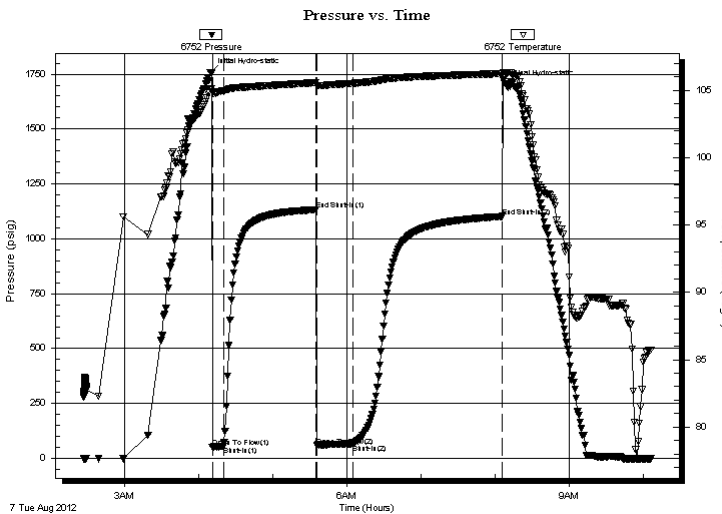
TEST COMMENT: 10 - IFP - weak blow throughout 1/4" - 1/2"

75 - ISI - no blow back

30 - FFP - no blow 10 min - 1 1/2"

120 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.96	105.13	Initial Hydro-static
1	50.15	104.88	Open To Flow (1)
10	55.52	104.97	Shut-In(1)
85	1132.39	105.57	End Shut-In(1)
86	57.49	105.37	Open To Flow (2)
115	65.12	105.51	Shut-In(2)
236	1101.74	106.24	End Shut-In(2)
239	1700.28	106.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 5%G, 10%O, 85%M	0.29

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 49283

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.08.07 @ 02:27:13

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	GOCM 5%G, 10%O, 85%M	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

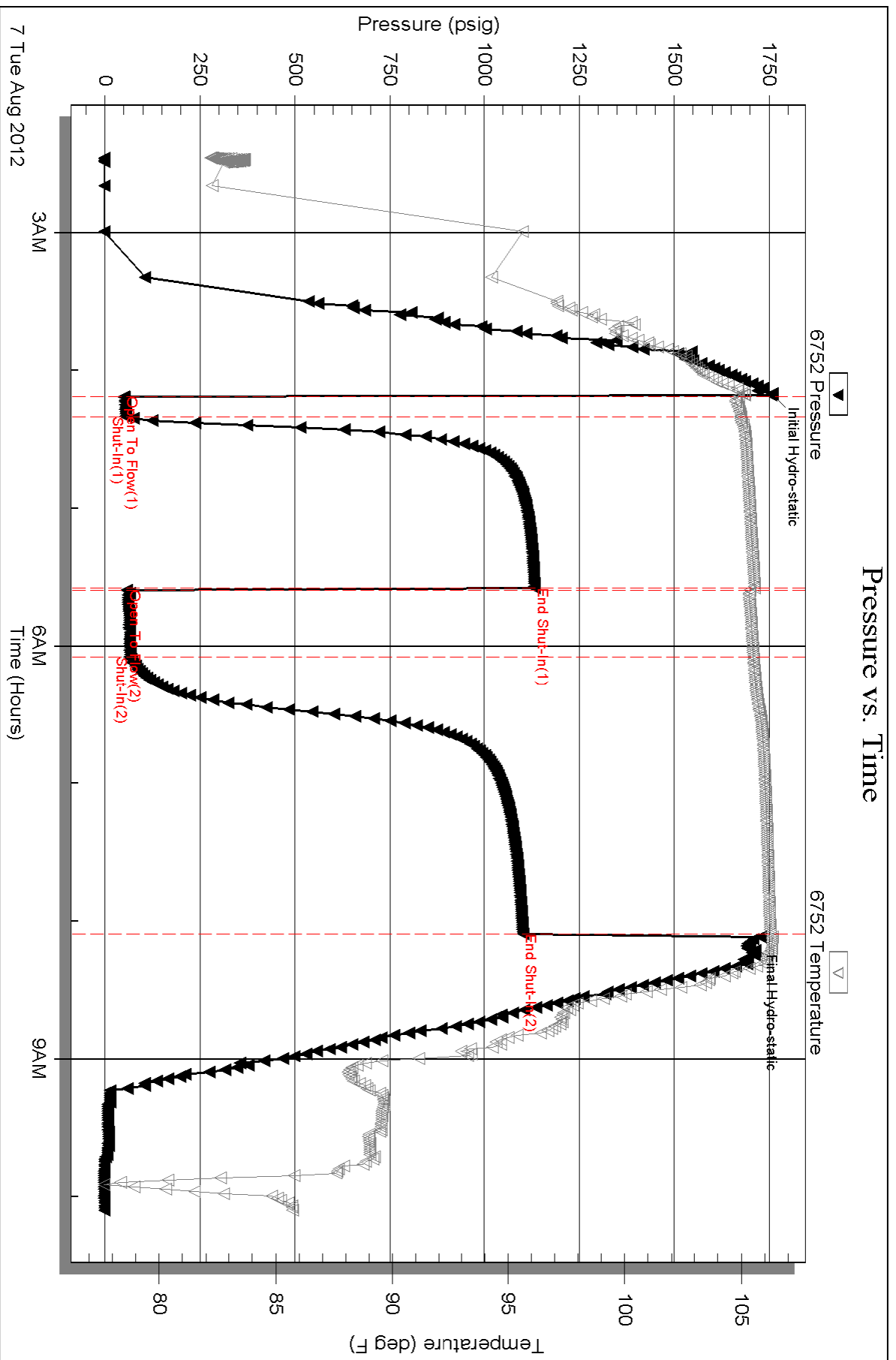
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 400 ml G, 1400 ml O, 2200 ml M, 250 LBS

Pressure vs. Time



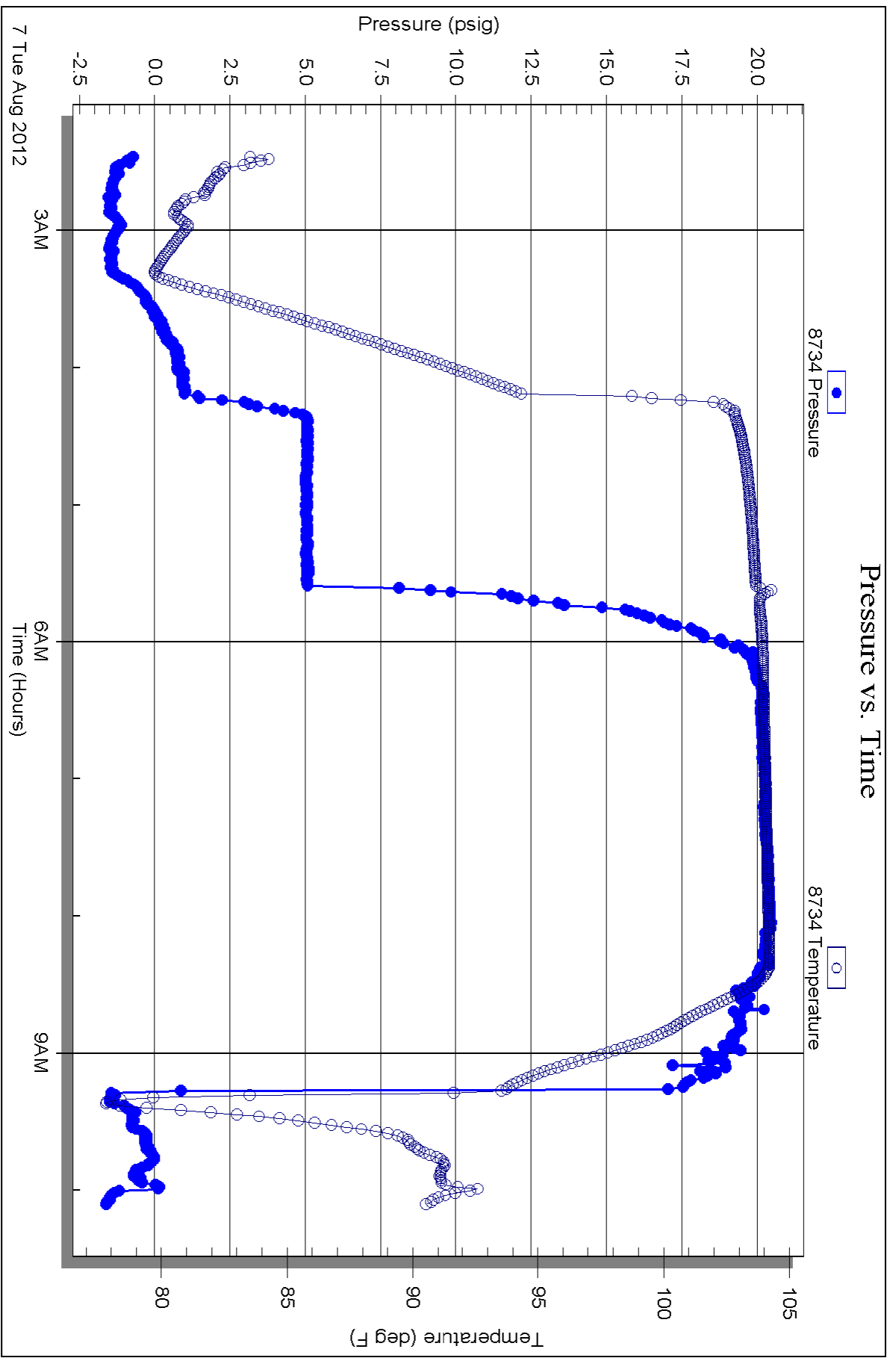
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Herman 1-15

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49283

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