

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr and Associates

Legleiter et al 1-10

1515 Wynkoop Street
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

10-16s-16w-Rush

Job Ticket: 43536

DST#: 4

Test Start: 2011.07.06 @ 02:48:30

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:45

Time Test Ended: 08:41:15

Test Type: Conventional Straddle (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3459.00 ft (KB) To 3493.00 ft (KB) (TVD)

Reference Elevations: 1953.00 ft (KB)

Total Depth: 3644.00 ft (KB) (TVD)

1943.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8673 Inside

Press @ RunDepth: 81.65 psig @ 3464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.06

End Date:

2011.07.06

Last Calib.:

2011.07.06

Start Time: 02:48:32

End Time:

08:41:15

Time On Btm:

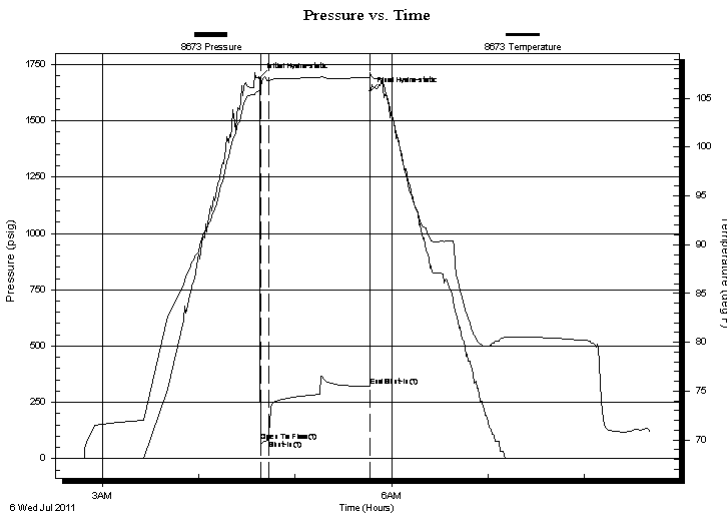
2011.07.06 @ 04:37:45

Time Off Btm:

2011.07.06 @ 05:46:45

TEST COMMENT: IFP-Strong,BOB in 30 Seconds
ISI-Dead,Pull Tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.57	105.76	Initial Hydro-static
1	75.39	106.11	Open To Flow (1)
6	81.65	106.82	Shut-In(1)
69	323.74	107.11	End Shut-In(1)
69	1629.95	107.65	Final Hydro-static

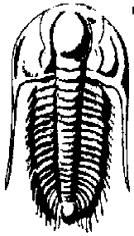
Recovery

Length (ft)	Description	Volume (bbl)
125.00	Mud W/Oil Specks	1.75

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 4

Test Start: 2011.07.06 @ 02:48:30

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	Mud W/Oil Specks	1.753

Total Length: 125.00 ft Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 30#, 3000ml OCWM-20%O-5%W-75%M

Serial #: 8673

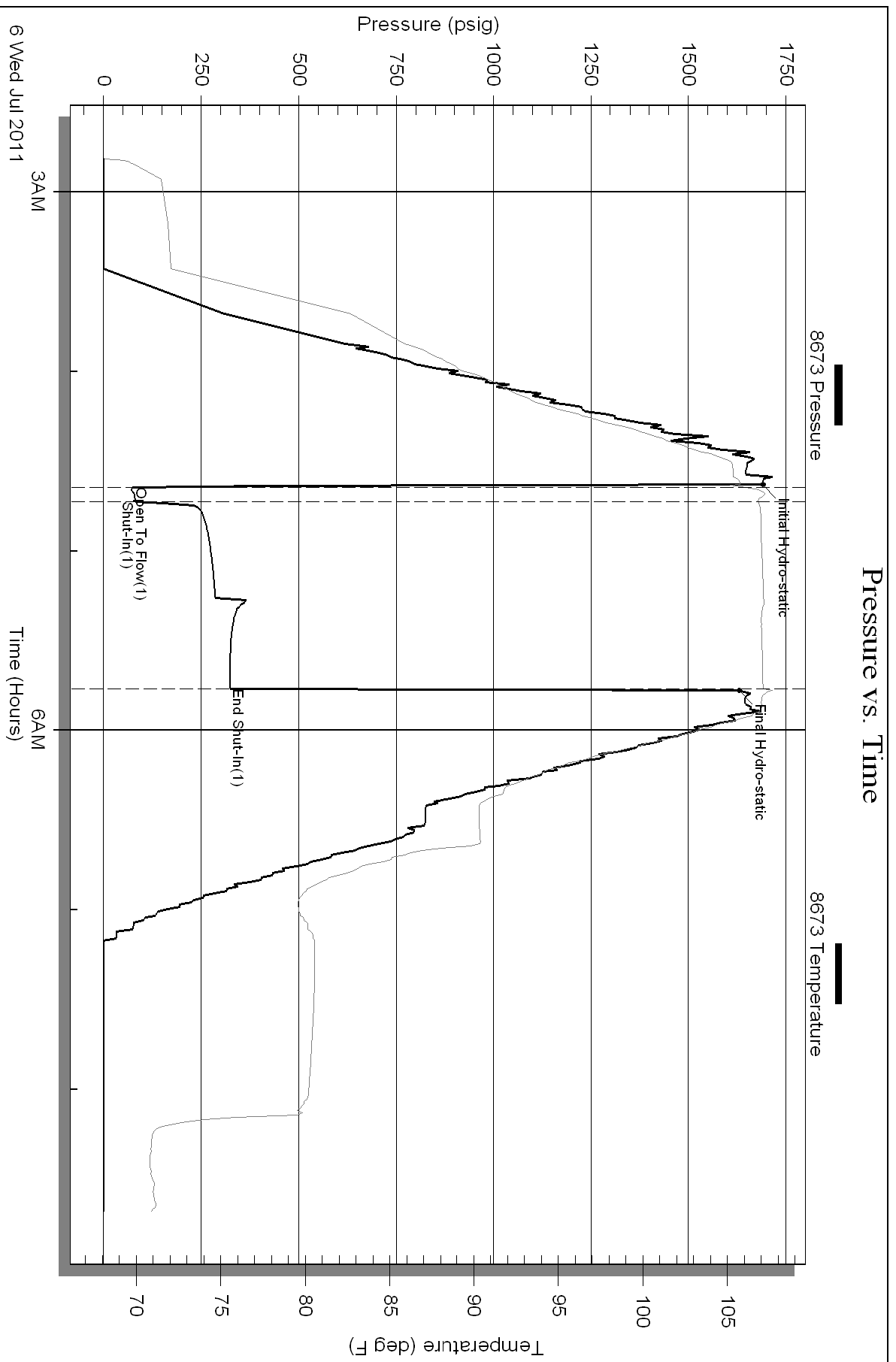
Inside

Sam Gary Jr and Associates

10-16s-16w-Rush

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 43536

Printed: 2011.07.06 @ 09:22:37

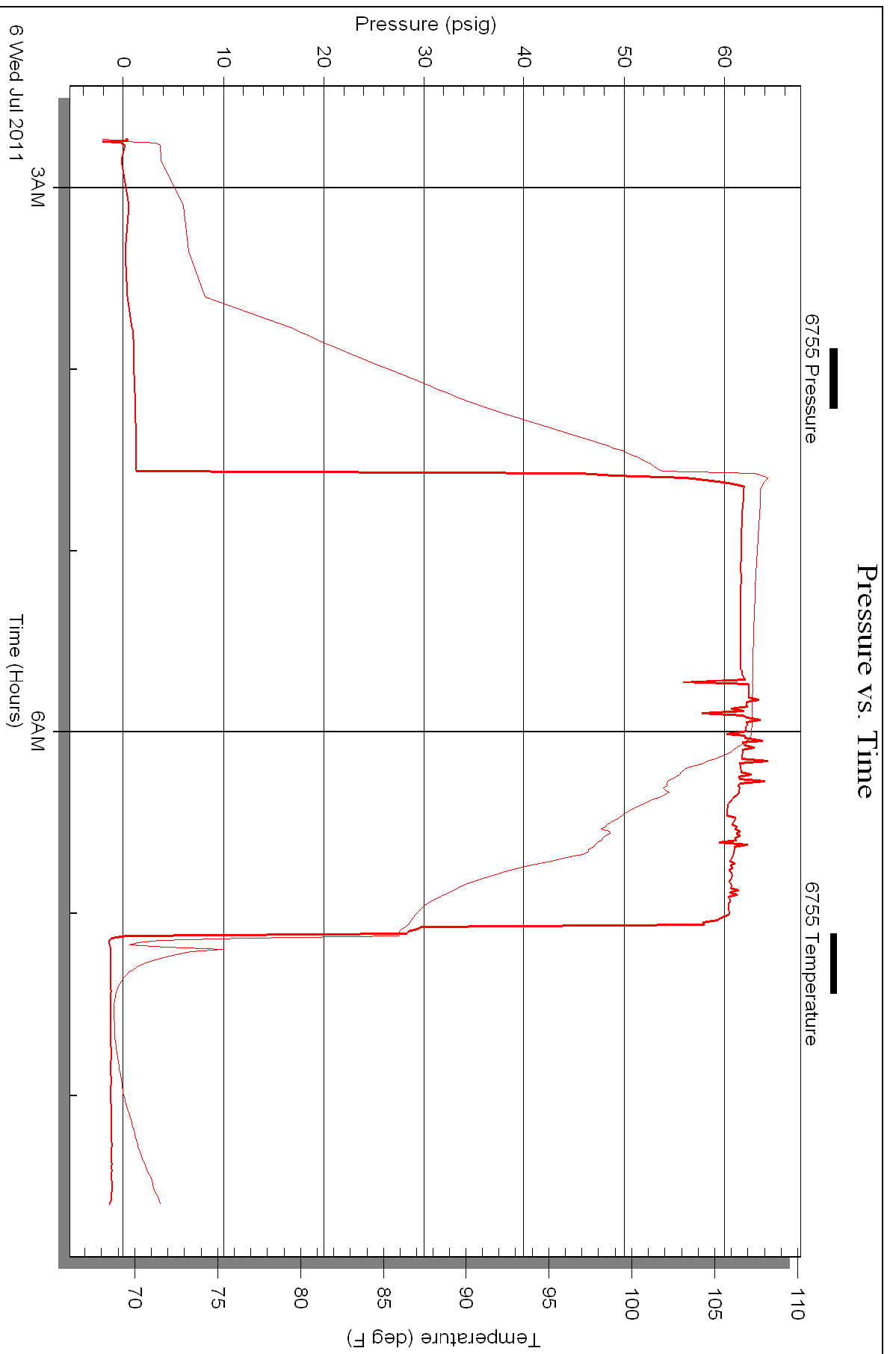
Serial #: 6755

Fluid

Sam Gary Jr and Associates

10-16s-16w-Rush

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 43536

Printed: 2011.07.06 @ 09:22:37

Serial #: 8736

Below (Strathmore) Jr and Associates

10-16s-16w-Rush

DST Test Number: 4

