



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

32-10s-21w Graham

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

Parks 1-32

Job Ticket: 54076

DST#: 4

Test Start: 2014.03.01 @ 23:50:24

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:11:49

Time Test Ended: 08:52:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3865.00 ft (KB) To 3879.00 ft (KB) (TVD)

Reference Elevations: 2214.00 ft (KB)

Total Depth: 3865.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press @ Run Depth: 28.57 psig @ 3871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.01

End Date:

2014.03.02

Last Calib.:

2014.03.02

Start Time: 23:50:24

End Time:

08:52:19

Time On Btm:

2014.03.02 @ 02:09:04

Time Off Btm:

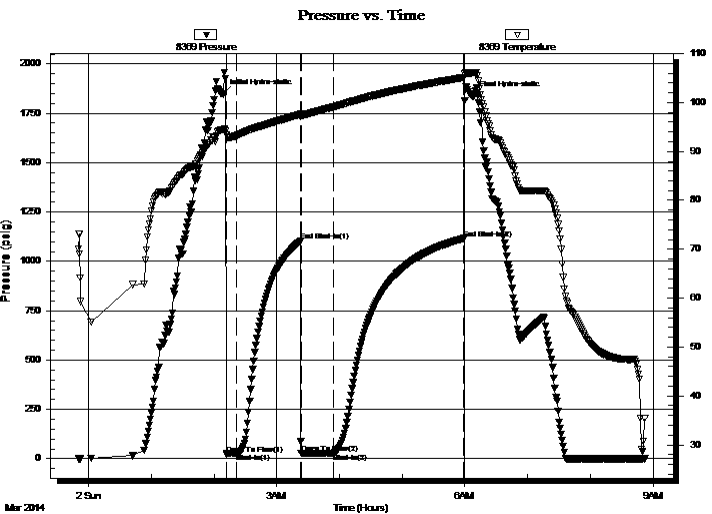
2014.03.02 @ 06:06:48

TEST COMMENT: 10-IFP-w k bl thru-out 1/2" to 2 1/4" bl

60-ISIP-no bl

30-FFP-w k bl thru-out 1" bl

120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1847.80	94.46	Initial Hydro-static
3	23.41	93.49	Open To Flow (1)
12	28.20	93.19	Shut-In(1)
74	1101.86	97.61	End Shut-In(1)
75	28.04	97.37	Open To Flow (2)
105	28.57	99.10	Shut-In(2)
230	1115.93	105.12	End Shut-In(2)
238	1837.54	106.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.28

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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STE 700

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DST#: 4

Denver Co 80202

ATTN: Chris Mitchell

Test Start: 2014.03.01 @ 23:50:24

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: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud w/show of oil	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbf

Num Fluid Samples: 0

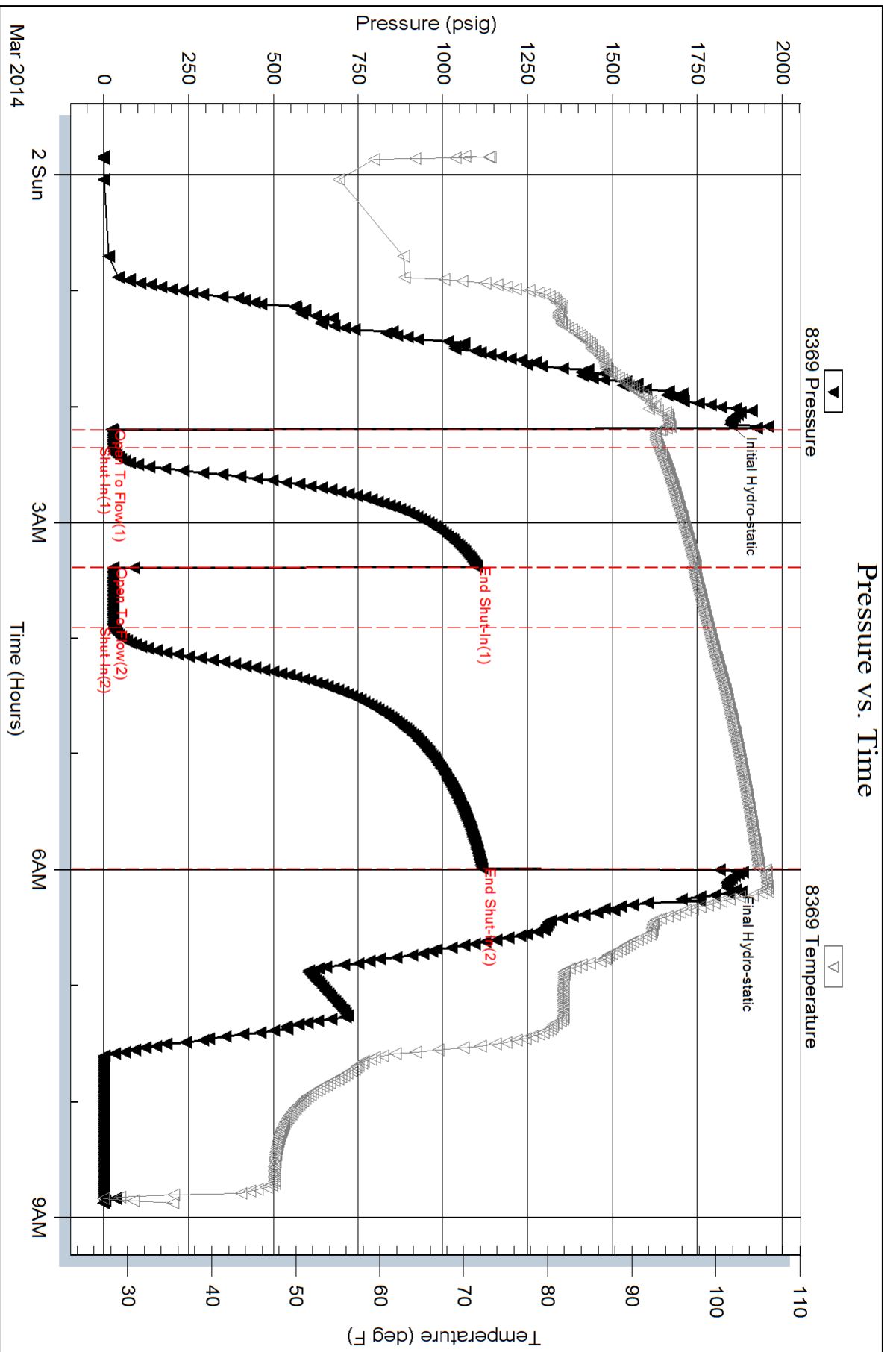
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 100# 1500ML mud trace of oil

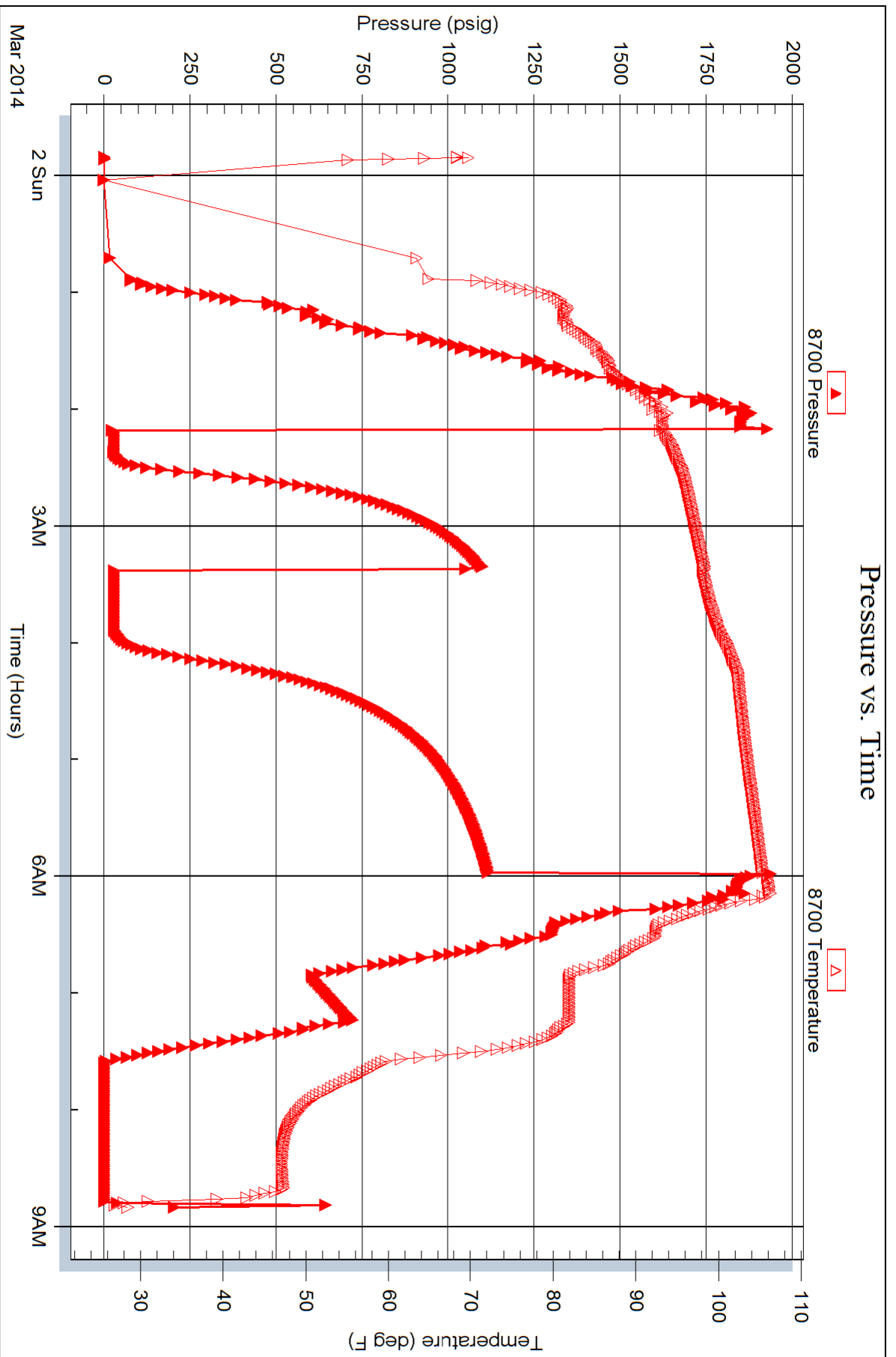


Serial #: 8700

Outside Samuel Gary Jr & Assoc Inc

Parks 1-32

DST Test Number: 4



Serial #: 8374

Fluid

Samuel Gary Jr & Assoc Inc

Parks 1-32

DST Test Number: 4

