



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary JR & Assoc Inc

23 10s 23w Graham

1515 Wynkoop Ste 700
Denver CO 80202

R Connes 1-23

Job Ticket: 56018

DST#: 1

ATTN: Chris Mitchell

Test Start: 2014.03.16 @ 16:34:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: 2336.00 ft (KB)

Time Tool Opened: 18:12:15

Time Test Ended: 00:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3618.00 ft (KB) To 3638.00 ft (KB) (TVD)

Reference Elevations: 2336.00 ft (KB)

Total Depth: 3638.00 ft (KB) (TVD)

2329.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 30.63 psig @ 3619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.16

End Date:

2014.03.17

Last Calib.:

2014.03.17

Start Time: 16:34:02

End Time:

00:05:00

Time On Btm:

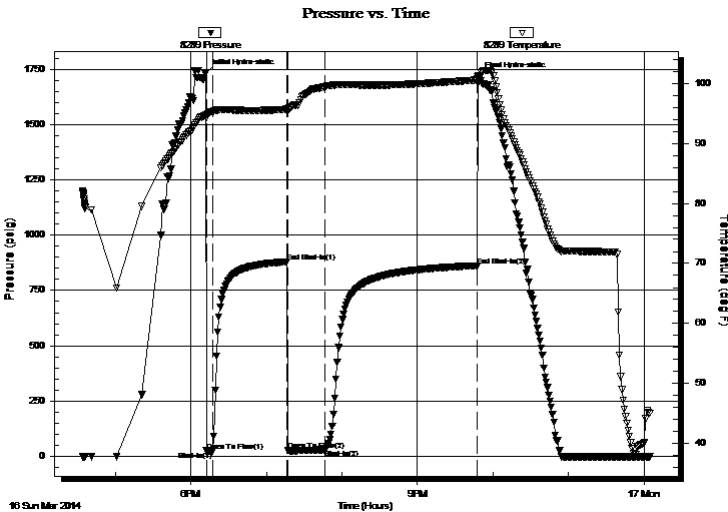
2014.03.16 @ 18:11:45

Time Off Btm:

2014.03.16 @ 21:47:45

TEST COMMENT: 5-IFP- Surface Blow Building to 2 in.
60-ISIP- No Blow
30-FFP- Surface Blow Building to 3 in.
120-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.59	94.71	Initial Hydro-static
1	25.22	94.28	Open To Flow (1)
6	25.32	95.28	Shut-In(1)
65	880.13	95.68	End Shut-In(1)
65	27.77	95.24	Open To Flow (2)
95	30.63	99.41	Shut-In(2)
216	862.20	100.53	End Shut-In(2)
216	1717.82	100.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
67.00	OCM 10%o 90%m	0.94

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

ATTN: Chris Mitchell

Test Start: 2014.03.16 @ 16:34:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	OCM 10%o 90%m	0.940

Total Length: 67.00 ft Total Volume: 0.940 bbl

Num Fluid Samples: 0

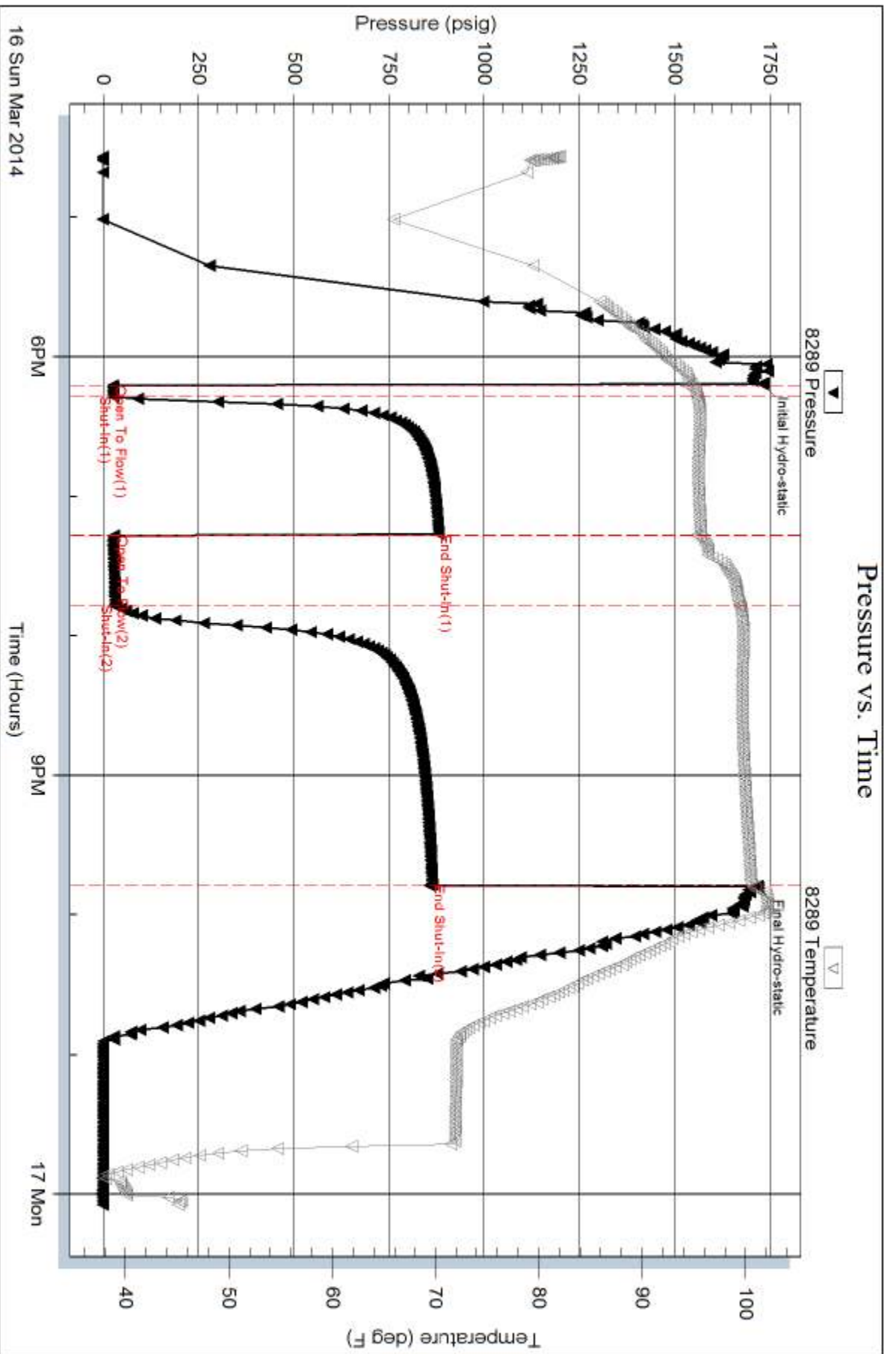
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Fluid 150ml oil 350ml mud--- 220psi



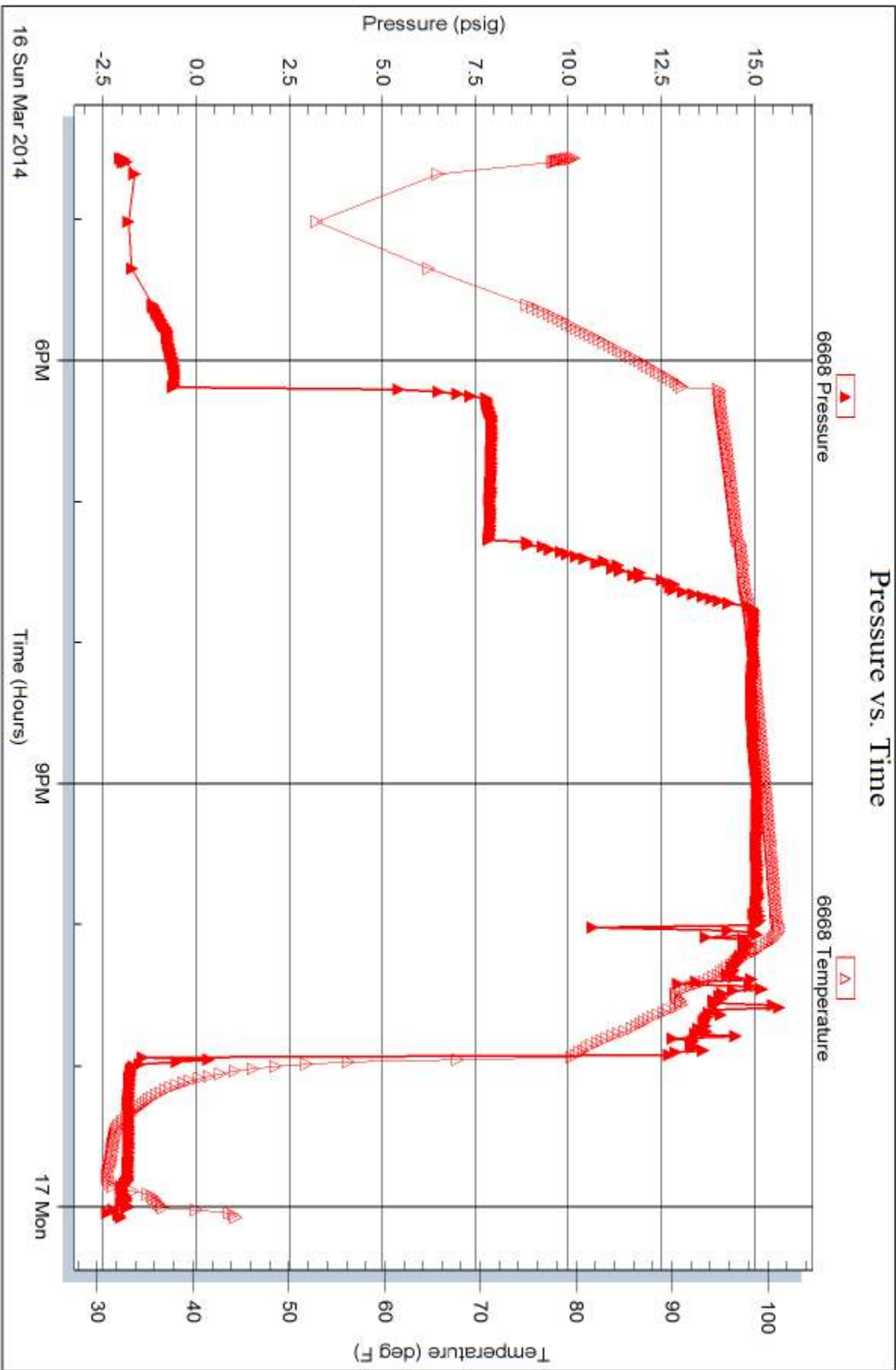
Serial #: 6668

Fluid

Samuel Gary JR & Assoc Inc

R Connes 1-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56018

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