



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc

4-10s-22w Graham KS

1515 Wynkoop STE 700
Denver CO 80202

Bollig 1-4

Job Ticket: 54491

DST#: 2

ATTN: Dan Pritchard

Test Start: 2013.10.30 @ 23:45:00

GENERAL INFORMATION:

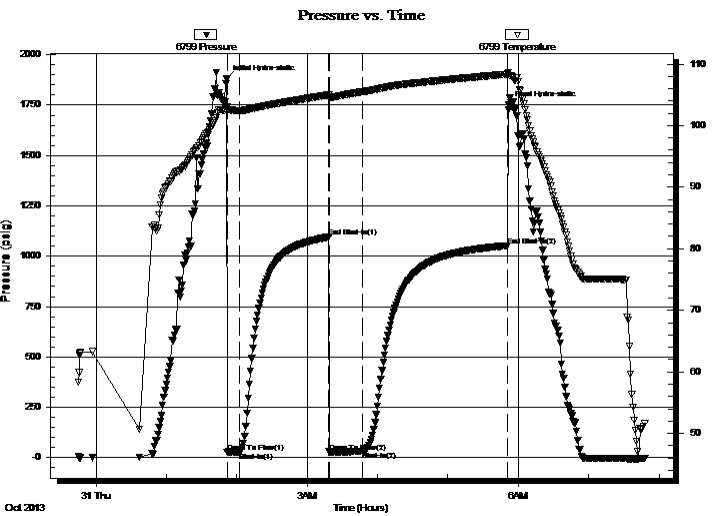
Formation: **LKC "H,I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:51:45
 Time Test Ended: 07:48:00
 Interval: **3718.00 ft (KB) To 3780.00 ft (KB) (TVD)**
 Total Depth: 3780.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 53
 Reference Elevations: 2349.00 ft (KB)
 2341.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6799

Inside

Press@RunDepth: 29.71 psig @ 3754.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.30 End Date: 2013.10.31 Last Calib.: 2013.10.31
 Start Time: 23:45:05 End Time: 07:47:59 Time On Btm: 2013.10.31 @ 01:51:30
 Time Off Btm: 2013.10.31 @ 05:51:30

TEST COMMENT: 10 - IF - 3/4" blow
 75 - ISI - No return
 30 - FF - 1/2" blow
 120 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1878.86	103.12	Initial Hydro-static
1	28.37	102.61	Open To Flow (1)
11	29.10	102.44	Shut-In(1)
87	1094.42	104.98	End Shut-In(1)
88	28.83	104.42	Open To Flow (2)
116	29.71	105.49	Shut-In(2)
240	1052.54	108.36	End Shut-In(2)
240	1749.06	108.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	VSOCM, 2%O, 98%M	0.10

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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Bollig 1-4

Job Ticket: 54491

DST#: 2

ATTN: Dan Pritchard

Test Start: 2013.10.30 @ 23:45:00

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: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
7.00	VSOCM, 2%O, 98%M	0.098

Total Length: 7.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

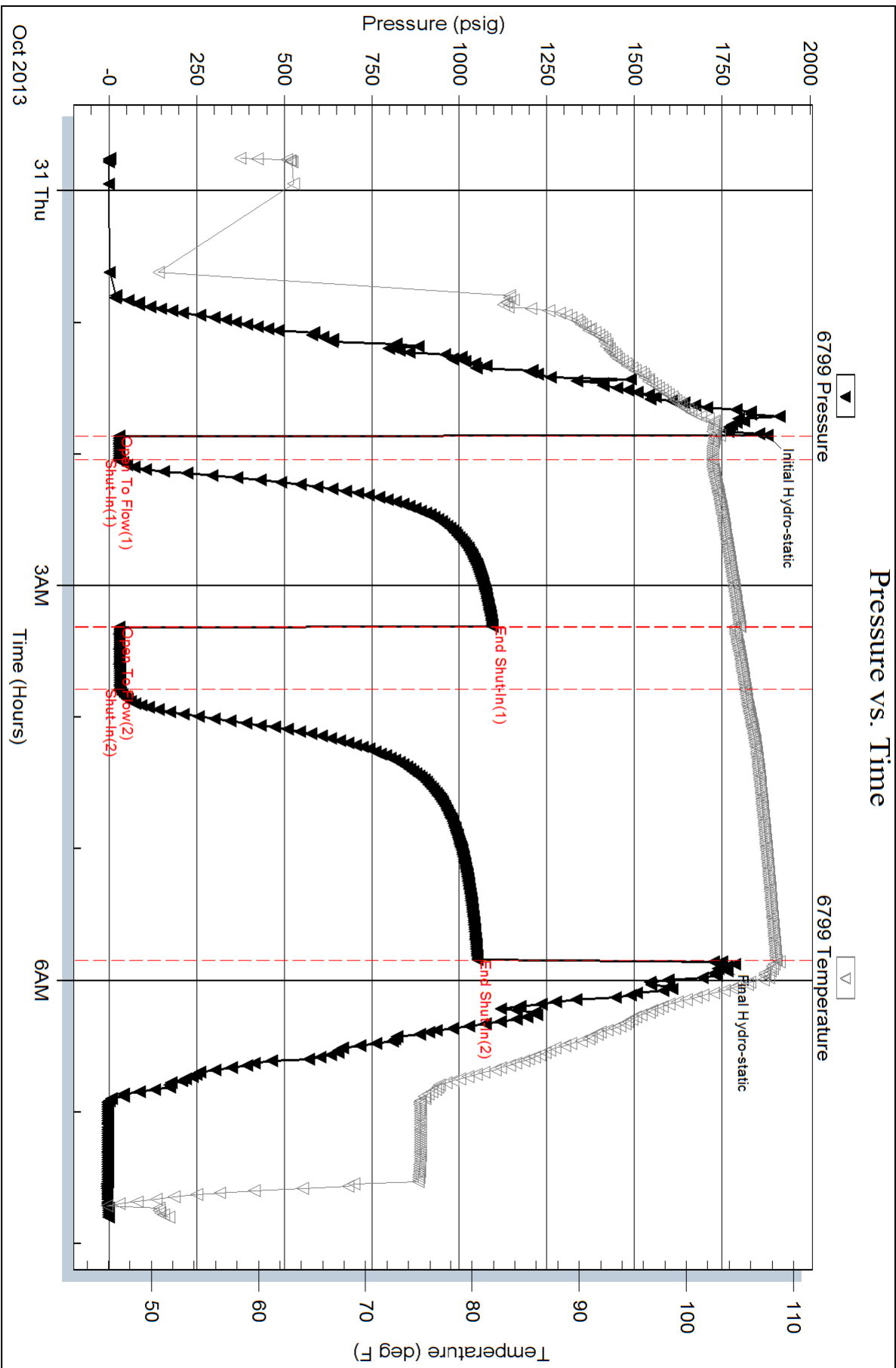
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: No pressure on it.



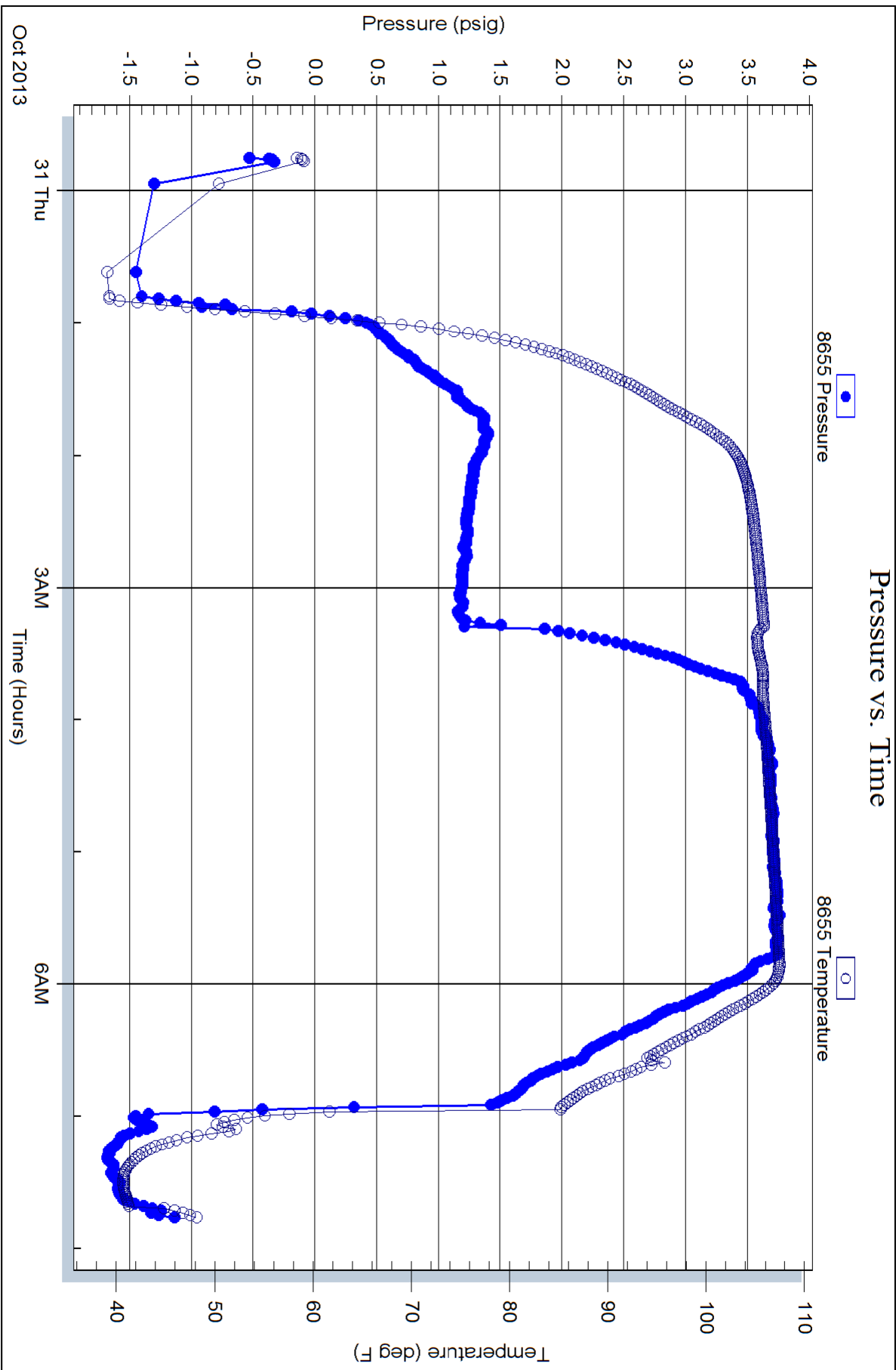
Serial #: 8655

Fluid

Samuel Gary Jr. & Assoc. Inc

Bollog 1-4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54491

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