



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

4-10s-22w Graham KS

1515 Wynkoop STE 700
Denver CO 80202

Bollig 1-4

Job Ticket: 54490

DST#: 1

ATTN: Dan Pritchard

Test Start: 2013.10.30 @ 01:34:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:00

Time Test Ended: 08:38:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 53

Interval: 3657.00 ft (KB) To 3692.00 ft (KB) (TVD)

Reference Elevations: 2349.00 ft (KB)

Total Depth: 3692.00 ft (KB) (TVD)

2341.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 37.93 psig @ 3660.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.30

End Date:

2013.10.30

Last Calib.:

2013.10.30

Start Time:

01:34:05

End Time:

08:38:14

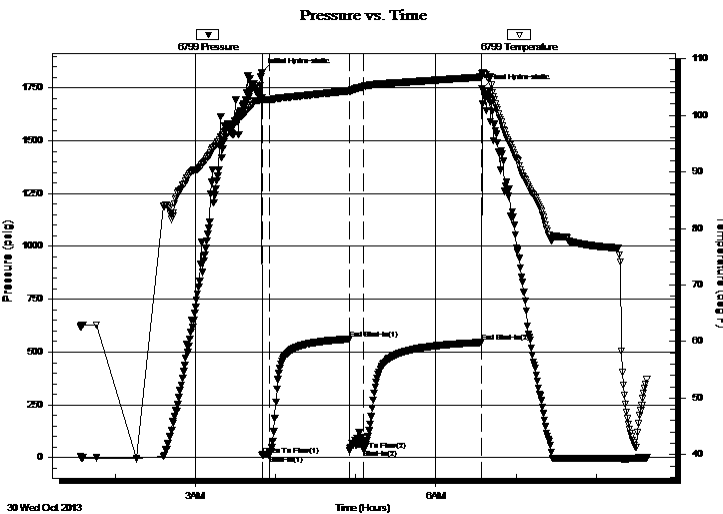
Time On Btm:

2013.10.30 @ 03:49:45

Time Off Btm:

2013.10.30 @ 06:34:30

TEST COMMENT: 05 - IF- 2" blow
60 - IS- No return
10 - FF- 1 1/2" blow
75 - FS- No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1823.30 | 103.00 | Initial Hydro-static |
| 1 | 11.45 | 102.50 | Open To Flow (1) |
| 6 | 13.90 | 102.75 | Shut-In(1) |
| 66 | 561.41 | 104.31 | End Shut-In(1) |
| 66 | 35.87 | 104.15 | Open To Flow (2) |
| 77 | 37.93 | 105.06 | Shut-In(2) |
| 165 | 546.10 | 106.75 | End Shut-In(2) |
| 165 | 1746.56 | 107.28 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 20.00 | HOCM, 30%O, 70%M | 0.28 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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FLUID SUMMARY

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Bollig 1-4

Job Ticket: 54490

DST#: 1

ATTN: Dan Pritchard

Test Start: 2013.10.30 @ 01:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 20.00 | HOCM, 30%O, 70%M | 0.281 |

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

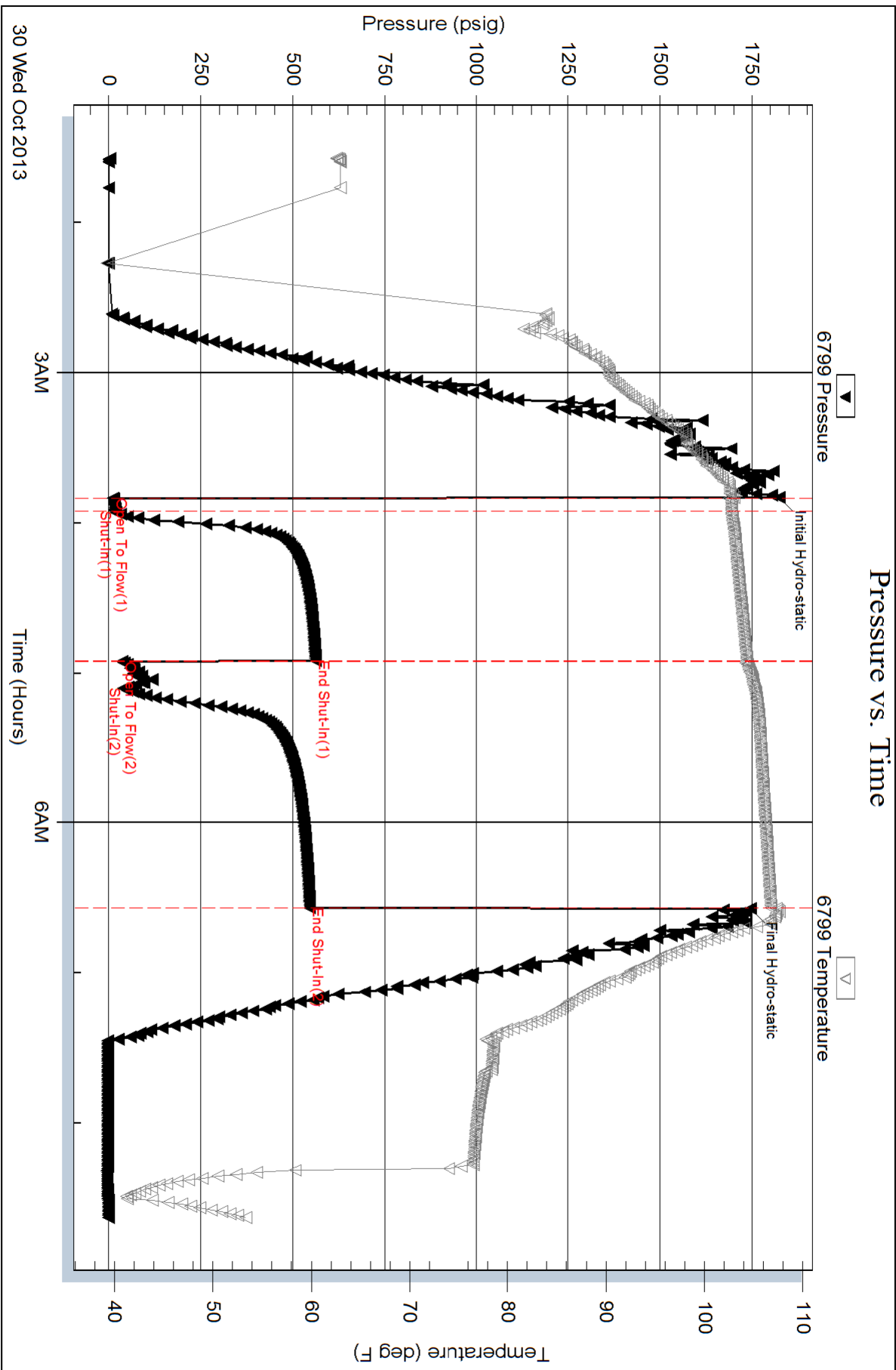
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: PSI 45, 1500ml Mud, 100 ml Oil



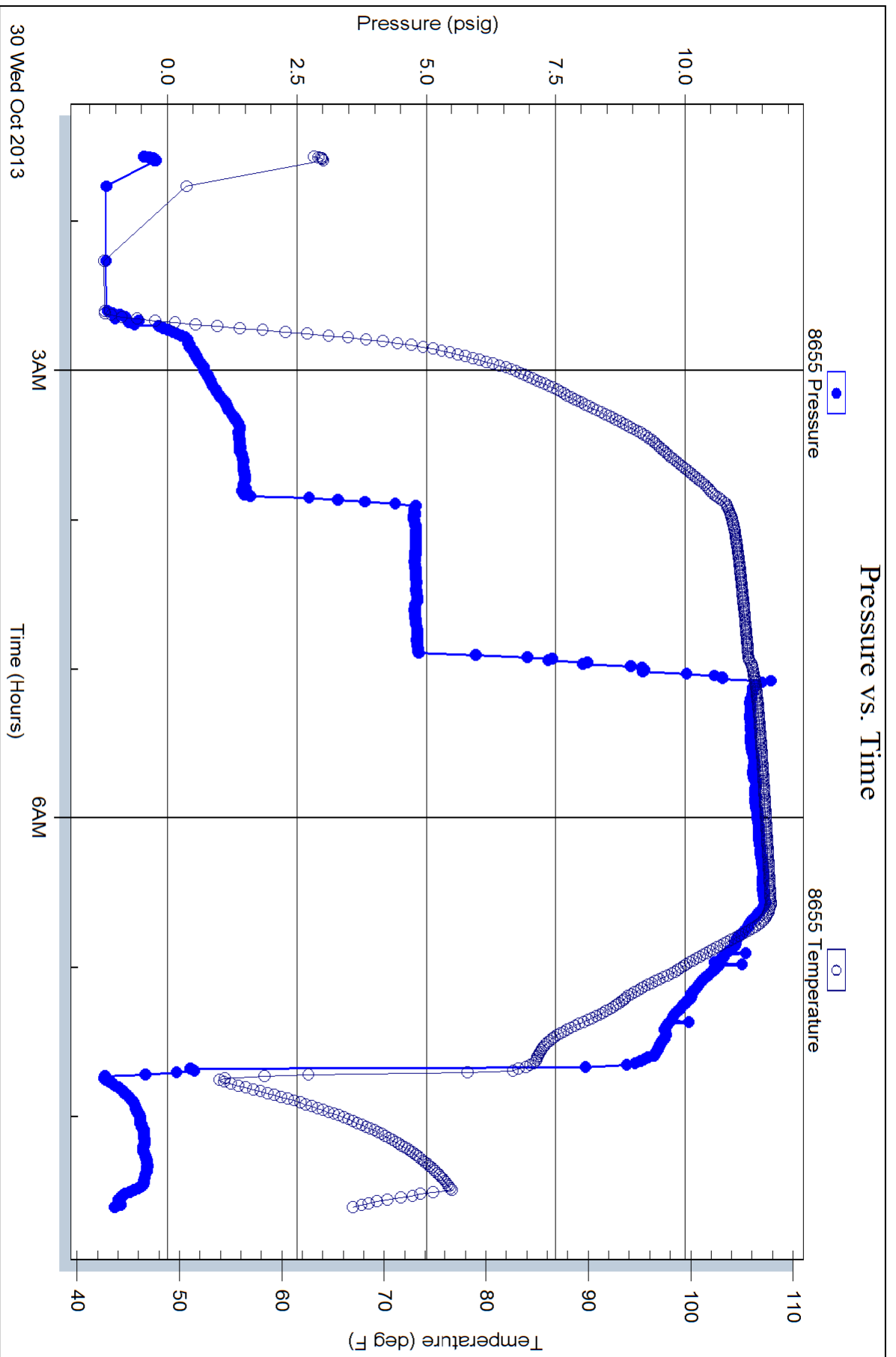
Serial #: 8655

Fluid

Samuel Gary Jr. & Associates, Inc

Bollog 1-4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54490

Printed: 2013.10.30 @ 09:03:37