



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61020

DST#: 4

ATTN: Chris Micheal

Test Start: 2014.12.08 @ 07:37:00

GENERAL INFORMATION:

Formation: **Lans. - 'I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:45

Time Test Ended: 16:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4150.00 ft (KB) To 4176.00 ft (KB) (TVD)

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4176.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press@RunDepth: 46.80 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.08

End Date: 2014.12.08

Last Calib.: 2014.12.08

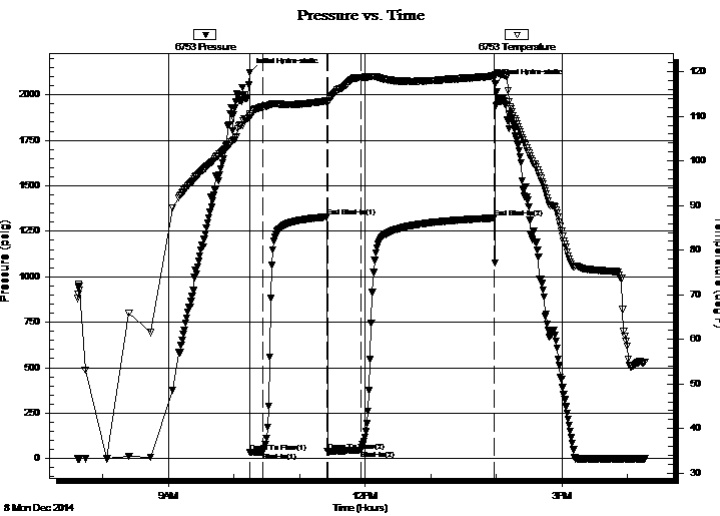
Start Time: 07:37:05

End Time: 16:16:30

Time On Btm: 2014.12.08 @ 10:14:30

Time Off Btm: 2014.12.08 @ 13:59:15

TEST COMMENT: 10 - IF - Surface blow built to 3 1/2"
60 - ISI - No Return
30 - FF - Surface blow built to 9 3/4"
120 - FSI - Weak Return started in 30 mins and stayed at a weak blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.43	110.49	Initial Hydro-static
1	36.27	110.08	Open To Flow (1)
12	37.22	112.13	Shut-In(1)
71	1328.75	113.45	End Shut-In(1)
72	40.70	113.03	Open To Flow (2)
102	46.80	118.73	Shut-In(2)
224	1322.42	118.99	End Shut-In(2)
225	2063.15	119.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
69.00	OCM - 65M - 35o	0.68
8.00	Free Oil - 100o	0.11

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 61020

DST#: 4

ATTN: Chris Micheal

Test Start: 2014.12.08 @ 07:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
69.00	OCM - 65M - 35o	0.681
8.00	Free Oil - 100o	0.112

Total Length: 77.00 ft Total Volume: 0.793 bbl

Num Fluid Samples: 0

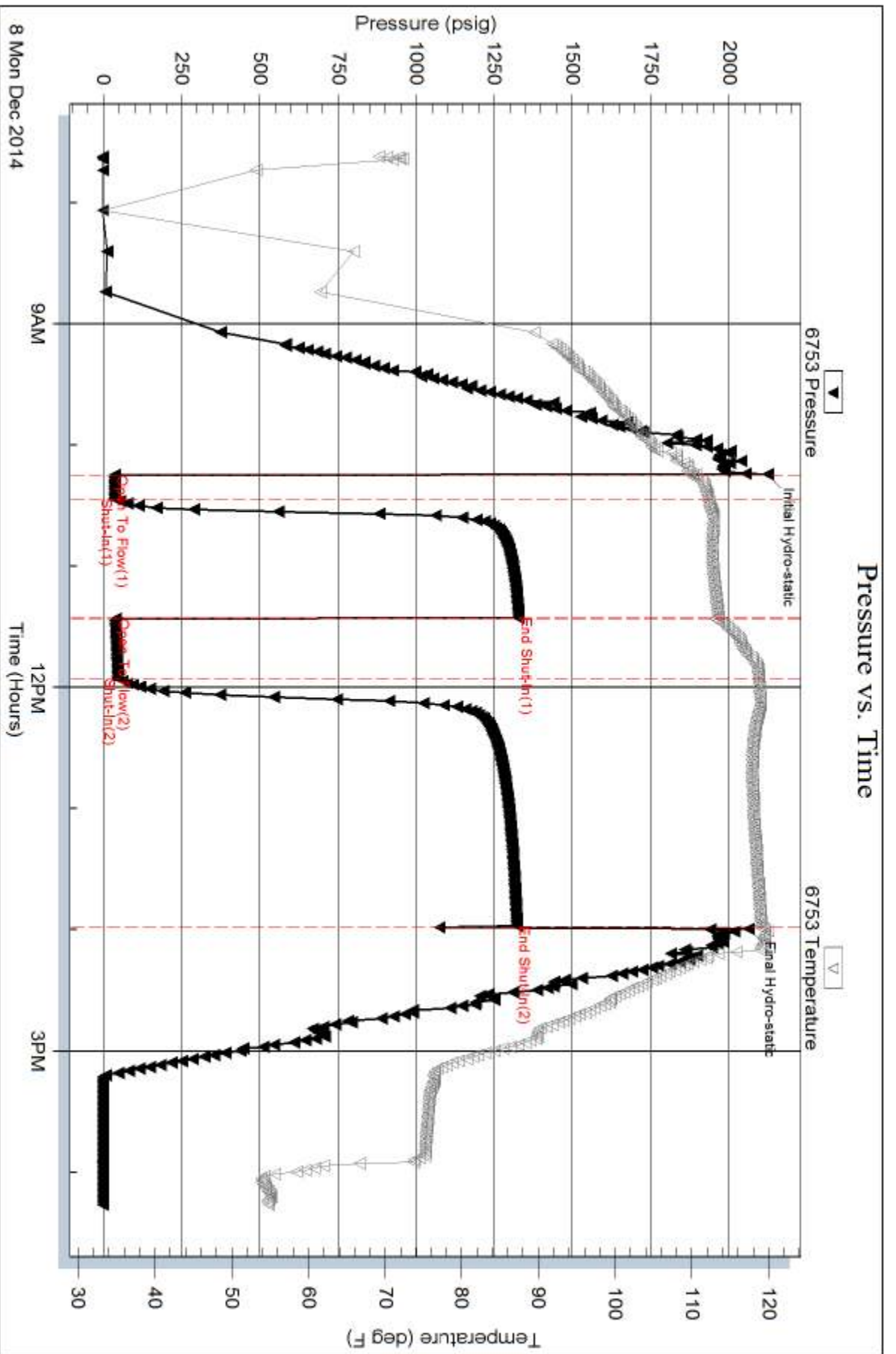
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



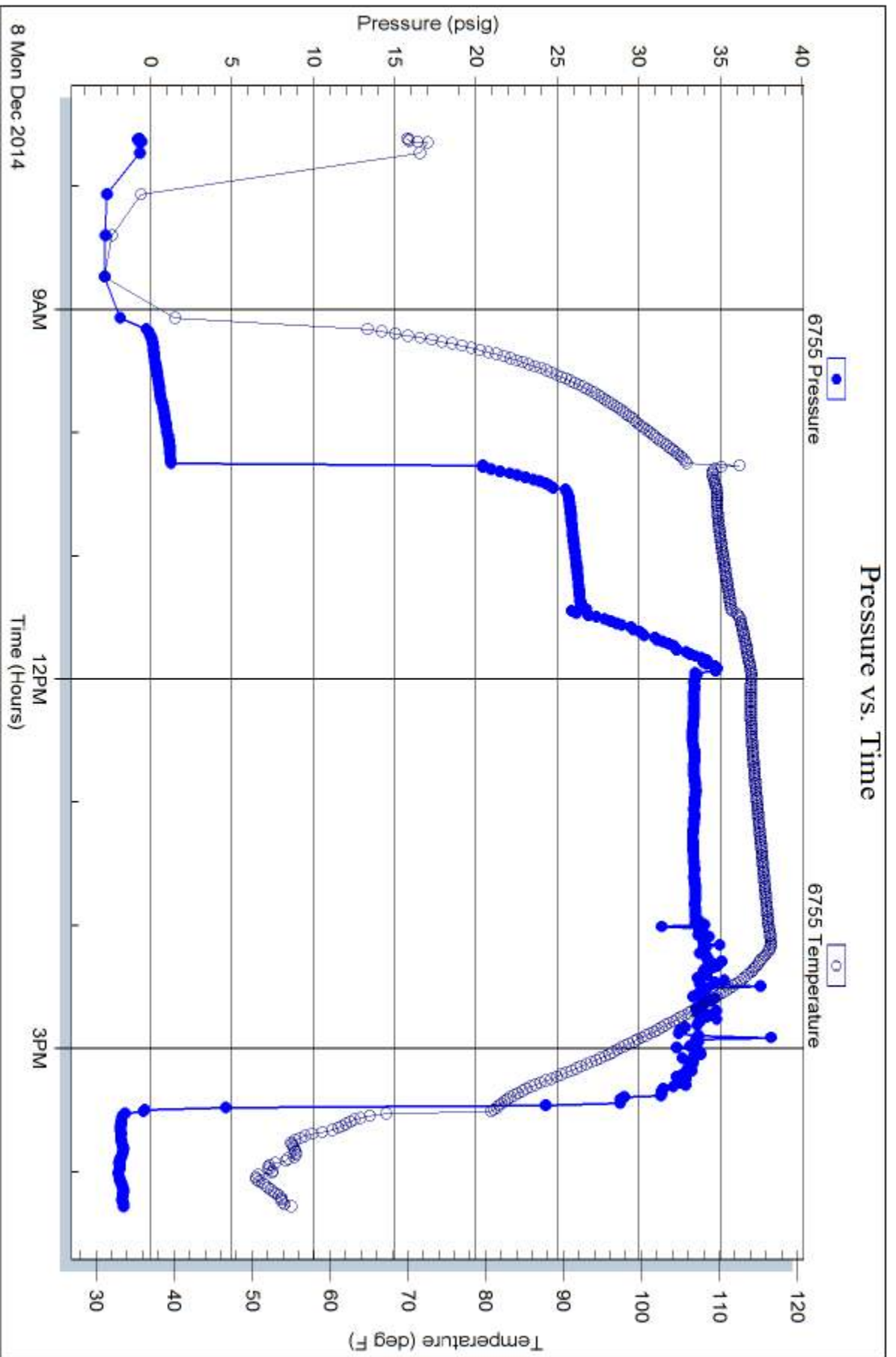
Serial #: 6755

Fluid

Sam Gary, Jr. and Associates, Inc.

Bauman

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61020

Printed: 2014, 12, 08 @ 17:14:41