



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc.

11-10s-27w, Sheridan, KS

1515 Wynkoop ST
Suite 700 Denver CO 80202

Delbert #1-11

Job Ticket: 62337

DST#: 3

ATTN: Chris Mitchell

Test Start: 2015.04.29 @ 01:25:00

GENERAL INFORMATION:

Formation: **KC "EF"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:30

Time Test Ended: 10:22:30

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: 3820.00 ft (KB) To 3865.00 ft (KB) (TVD)

Total Depth: 4395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2597.00 ft (KB)

2592.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8957

Inside

Press@RunDepth: 941.57 psig @ 3821.00 ft (KB)

Start Date: 2015.04.29

End Date: 2015.04.29

Start Time: 01:25:05

End Time: 10:22:30

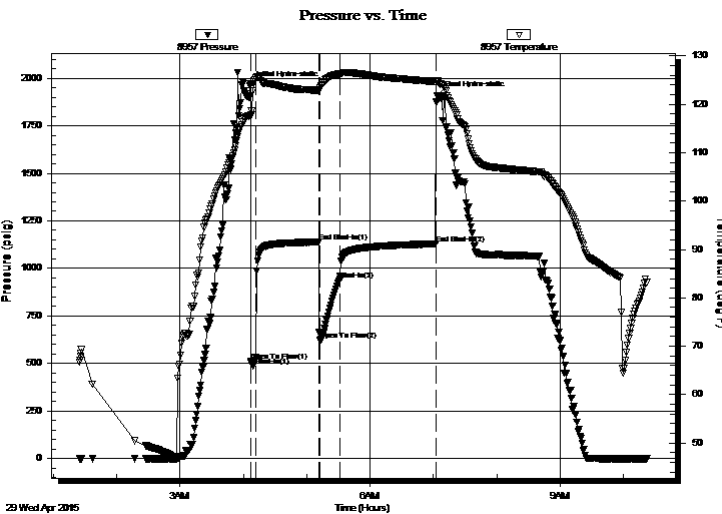
Capacity: 8000.00 psig

Last Calib.: 2015.04.29

Time On Btm: 2015.04.29 @ 04:06:15

Time Off Btm: 2015.04.29 @ 07:03:45

TEST COMMENT: 5min IF-BOB in 1min
60min ISI-No blow
20min FF-BOB in 1min
90min -FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.19	117.71	Initial Hydro-static
2	509.20	117.77	Open To Flow (1)
6	531.23	125.44	Shut-In(1)
65	1138.60	122.85	End Shut-In(1)
67	620.73	123.48	Open To Flow (2)
86	941.57	126.29	Shut-In(2)
176	1128.89	124.67	End Shut-In(2)
178	1910.77	124.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	Water	20.93
360.00	WCM 30%W 70%M	5.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc.

11-10s-27w, Sheridan, KS

1515 Wynkoop ST
Suite 700 Denver CO 80202

Delbert #1-11

Job Ticket: 62337

DST#: 3

ATTN: Chris Mitchell

Test Start: 2015.04.29 @ 01:25:00

GENERAL INFORMATION:

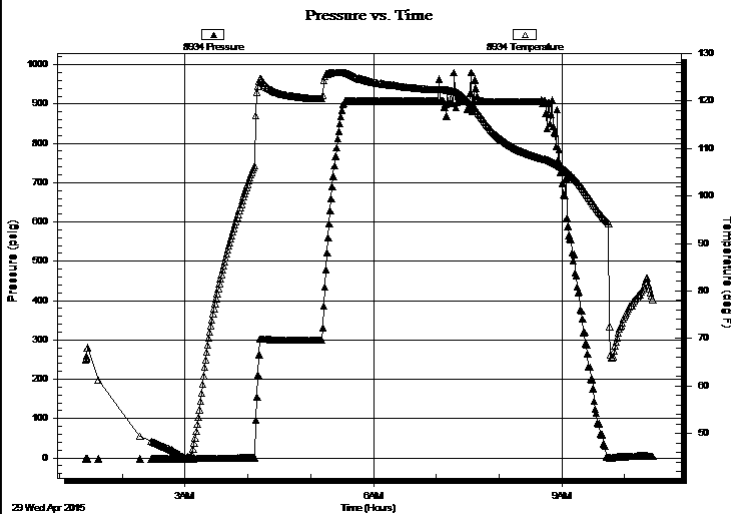
Formation:	KC "EF"				
Deviated:	No Whipstock:	ft (KB)	Test Type:	Conventional Straddle (Reset)	
Time Tool Opened:	04:07:30		Tester:	Brett Dickinson	
Time Test Ended:	10:22:30		Unit No:	81	
Interval:	3820.00 ft (KB) To 3865.00 ft (KB) (TVD)		Reference Elevations:	2597.00 ft (KB)	
Total Depth:	4395.00 ft (KB) (TVD)			2592.00 ft (CF)	
Hole Diameter:	7.88 inches	Hole Condition: Fair	KB to GR/CF:	5.00 ft	

Serial #: 8934

Fluid

Press@RunDepth:	psig @	3793.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2015.04.29	End Date:	2015.04.29	Last Calib.:	2015.04.29
Start Time:	01:25:05	End Time:	10:26:45	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 5min IF-BOB in 1min
60min ISI-No blow
20min FF-BOB in 1min
90min -FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	Water	20.93
360.00	WCM 30%W 70%M	5.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc.

11-10s-27w, Sheridan, KS

1515 Wynkoop ST
Suite 700 Denver CO 80202

Delbert #1-11

Job Ticket: 62337

DST#: 3

ATTN: Chris Mitchell

Test Start: 2015.04.29 @ 01:25:00

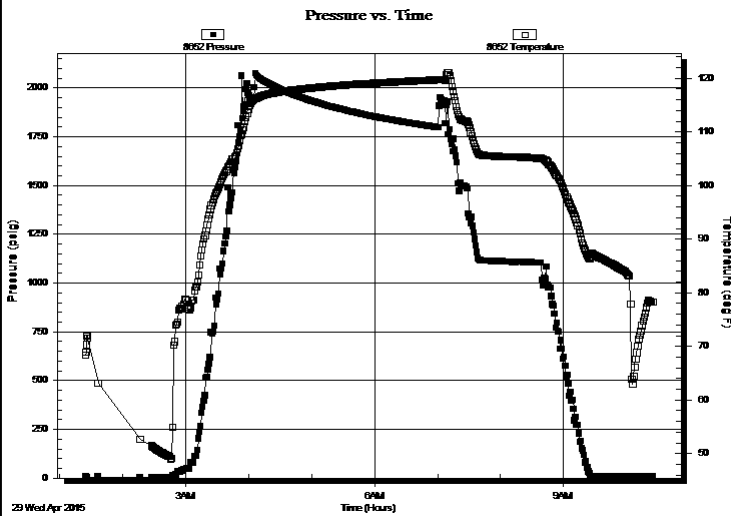
GENERAL INFORMATION:

Formation: **KC "EF"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:07:30
 Time Test Ended: 10:22:30
 Interval: **3820.00 ft (KB) To 3865.00 ft (KB) (TVD)**
 Total Depth: 4395.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Brett Dickinson
 Unit No: 81
 Reference Elevations: 2597.00 ft (KB)
 2592.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8652 Below (Straddle)

Press@RunDepth: psig @ 3886.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.29 End Date: 2015.04.29 Last Calib.: 2015.04.29
 Start Time: 01:25:05 End Time: 10:24:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 5min IF-BOB in 1min
 60min ISI-No blow
 20min FF-BOB in 1min
 90min -FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	Water	20.93
360.00	WCM 30%W 70%M	5.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc.

11-10s-27w, Sheridan, KS

1515 Wynkoop ST
Suite 700 Denver CO 80202

Delbert #1-11

Job Ticket: 62337

DST#: 3

ATTN: Chris Mitchell

Test Start: 2015.04.29 @ 01:25:00

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:

90000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1570.00	Water	20.930
360.00	WCM 30%W 70%M	5.050

Total Length: 1930.00 ft Total Volume: 25.980 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

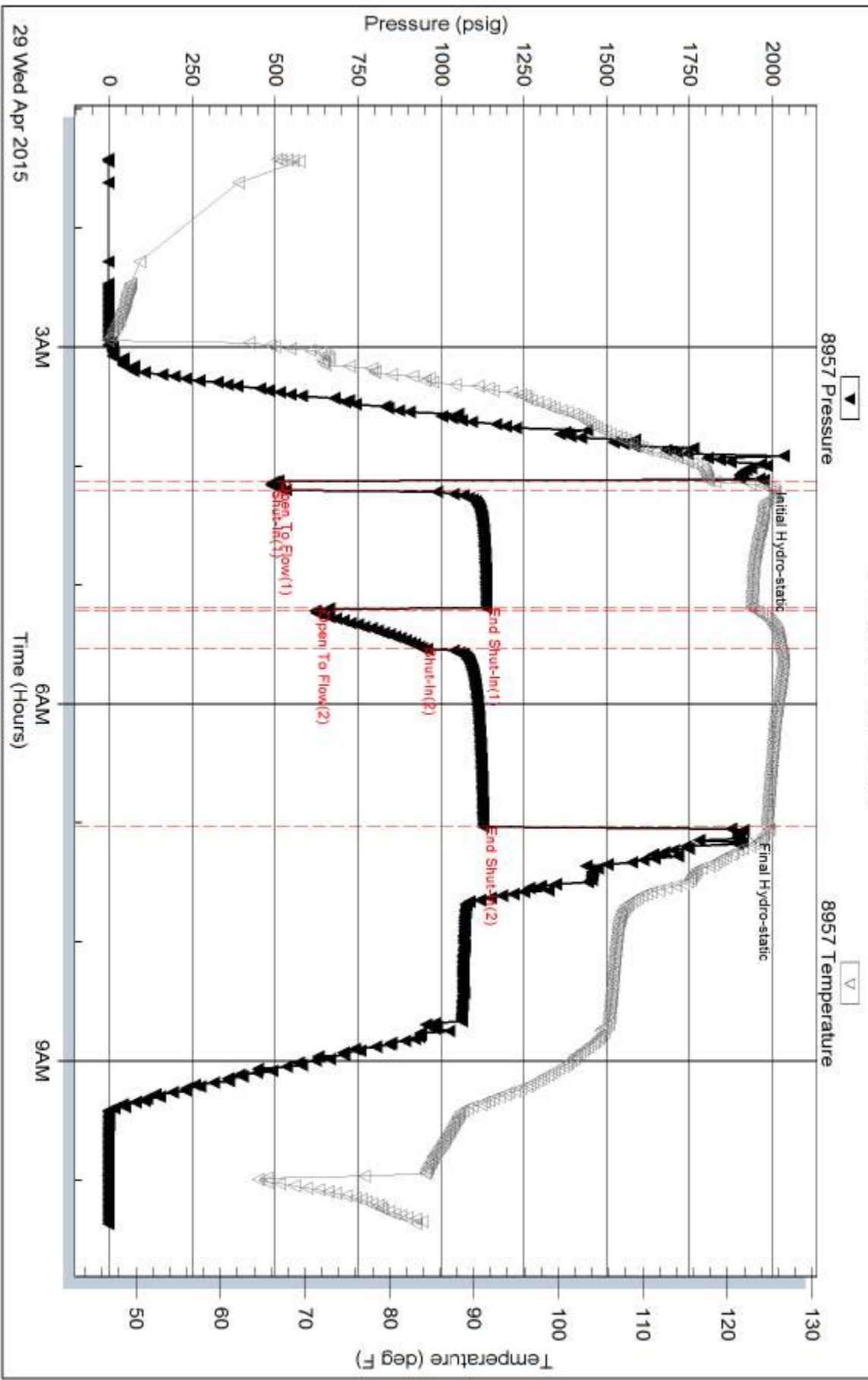
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09 @ 70

Pressure vs. Time



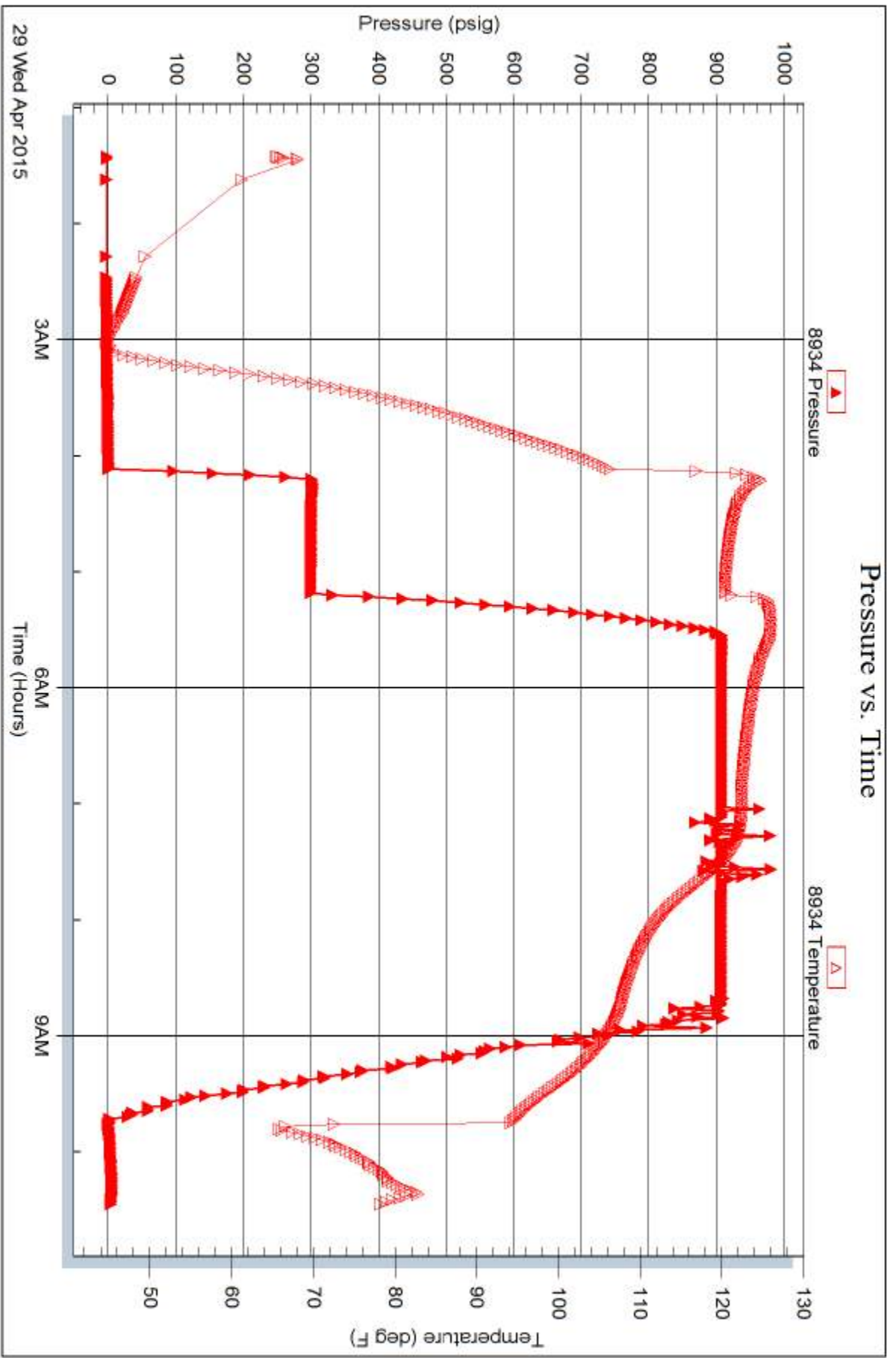
Serial #: 8934

Fluid

Samuel Gary Jr & Associates Inc.

Delbert #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62337

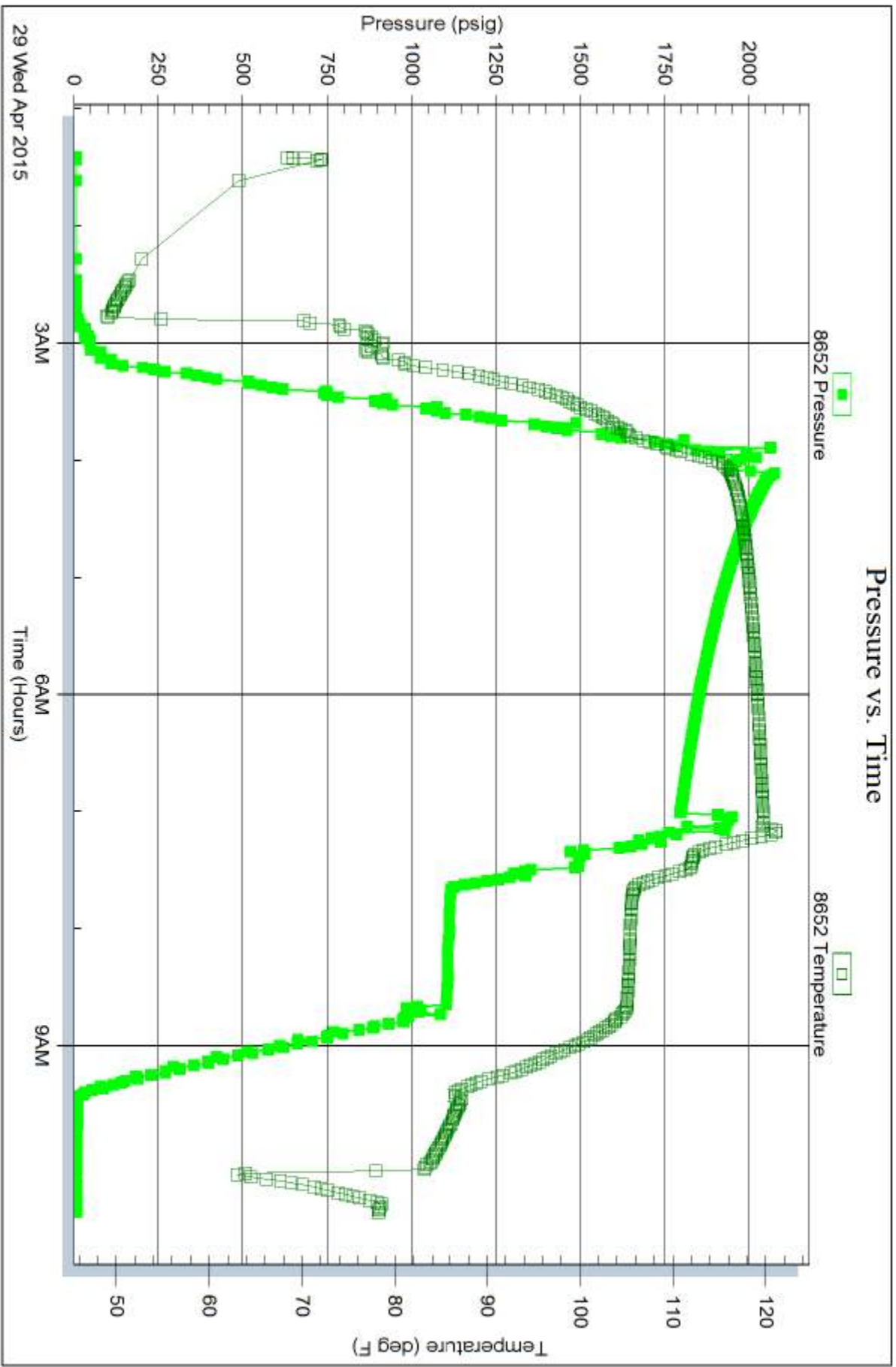
Printed: 2015.04.29 @ 11:58:41

Serial #: 8652

Below (Stratton) Gary Jr & Associates Inc.

Delbert #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62337

Printed: 2015.04.29 @ 11:58:41