



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

SGA Inc.
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Clayton Camozzi

12-4S-36W Rawlins KS

Fisher Cattle #1-12

Job Ticket: 60025 **DST#: 4**
Test Start: 2014.10.05 @ 13:38:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:57:45
Time Test Ended: 23:30:30
Interval: **4563.00 ft (KB) To 4575.00 ft (KB) (TVD)**
Total Depth: 4912.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Straddle (Reset)
Tester: Ryan Nichols
Unit No: 78
Reference Elevations: 3295.00 ft (KB)
3290.00 ft (CF)
KB to GR/CF: 5.00 ft

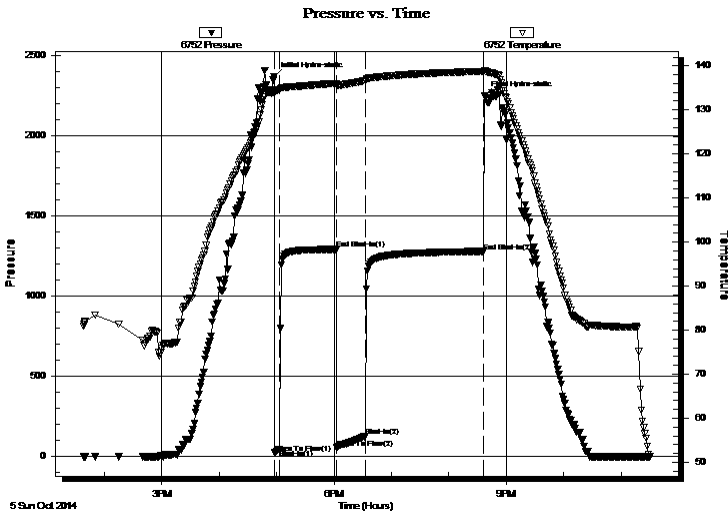
Serial #: 6752

Inside

Press @ Run Depth: 123.96 psig @ 4568.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.05 End Date: 2014.10.05 Last Calib.: 2014.10.05
Start Time: 13:38:05 End Time: 23:30:30 Time On Btm: 2014.10.05 @ 16:57:15
Time Off Btm: 2014.10.05 @ 20:37:30

TEST COMMENT: 10 IF - 1/2" blow built to 5"
60 ISI - Surface blow started @ 10 mins built to 1"
30 FF - Surface blow built to BoB @ 10 mins
120 FSI - Surface blow started @ 8 mins built to 7"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.65	134.47	Initial Hydro-static
1	19.34	134.19	Open To Flow (1)
6	43.59	134.55	Shut-In(1)
65	1290.98	136.01	End Shut-In(1)
66	52.53	135.71	Open To Flow (2)
96	123.96	136.65	Shut-In(2)
219	1278.12	138.78	End Shut-In(2)
221	2246.53	138.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMCO - 25%G - 30%M - 45%o	0.31
189.00	GO - 50%G - 50%o	1.53
88.00	GO - 20%G - 80%o	1.23

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

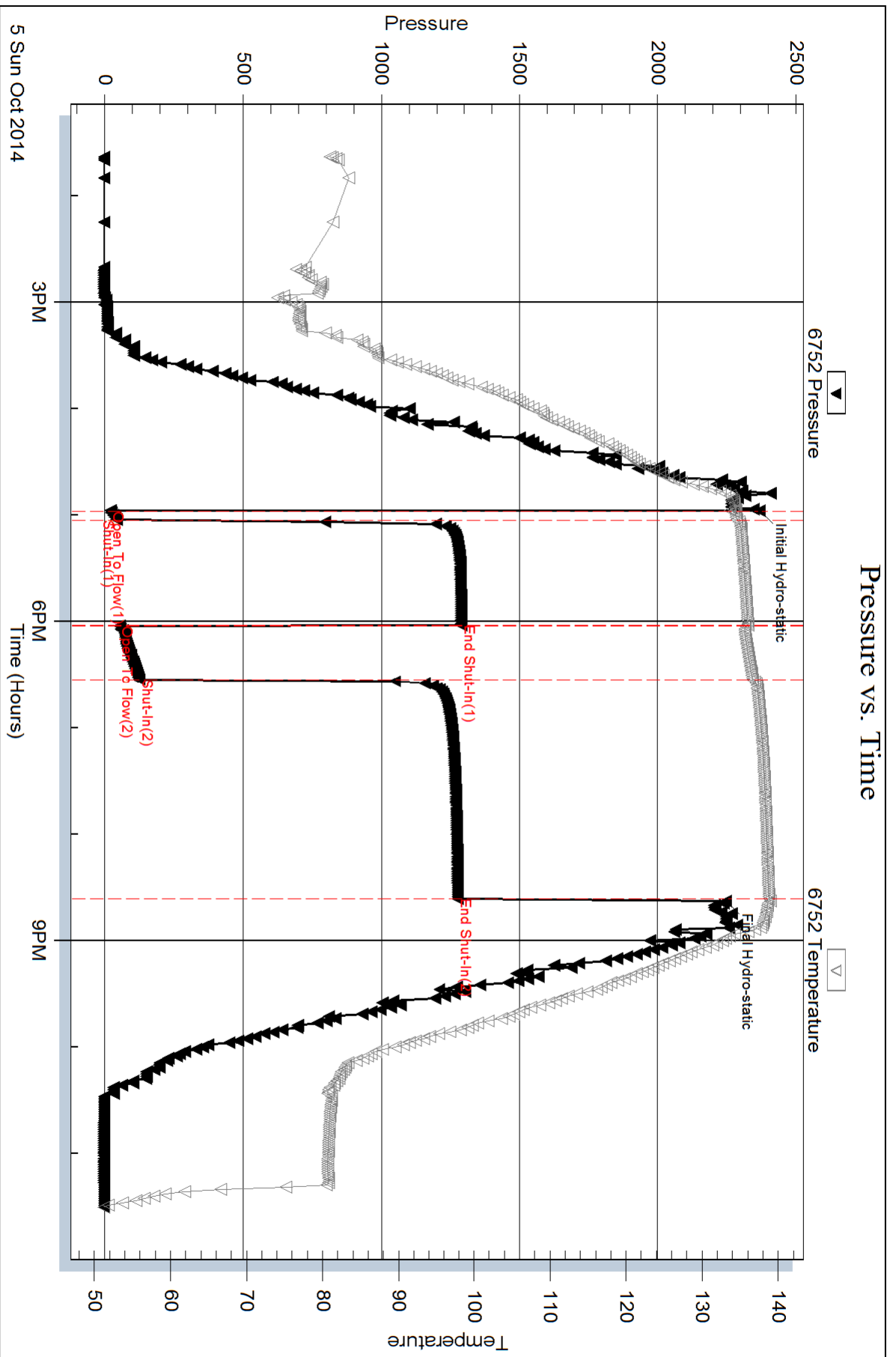
Length ft	Description	Volume bbl
63.00	GMCO - 25%G - 30%M - 45%o	0.310
189.00	GO - 50%G - 50%o	1.531
88.00	GO - 20%G - 80%o	1.234

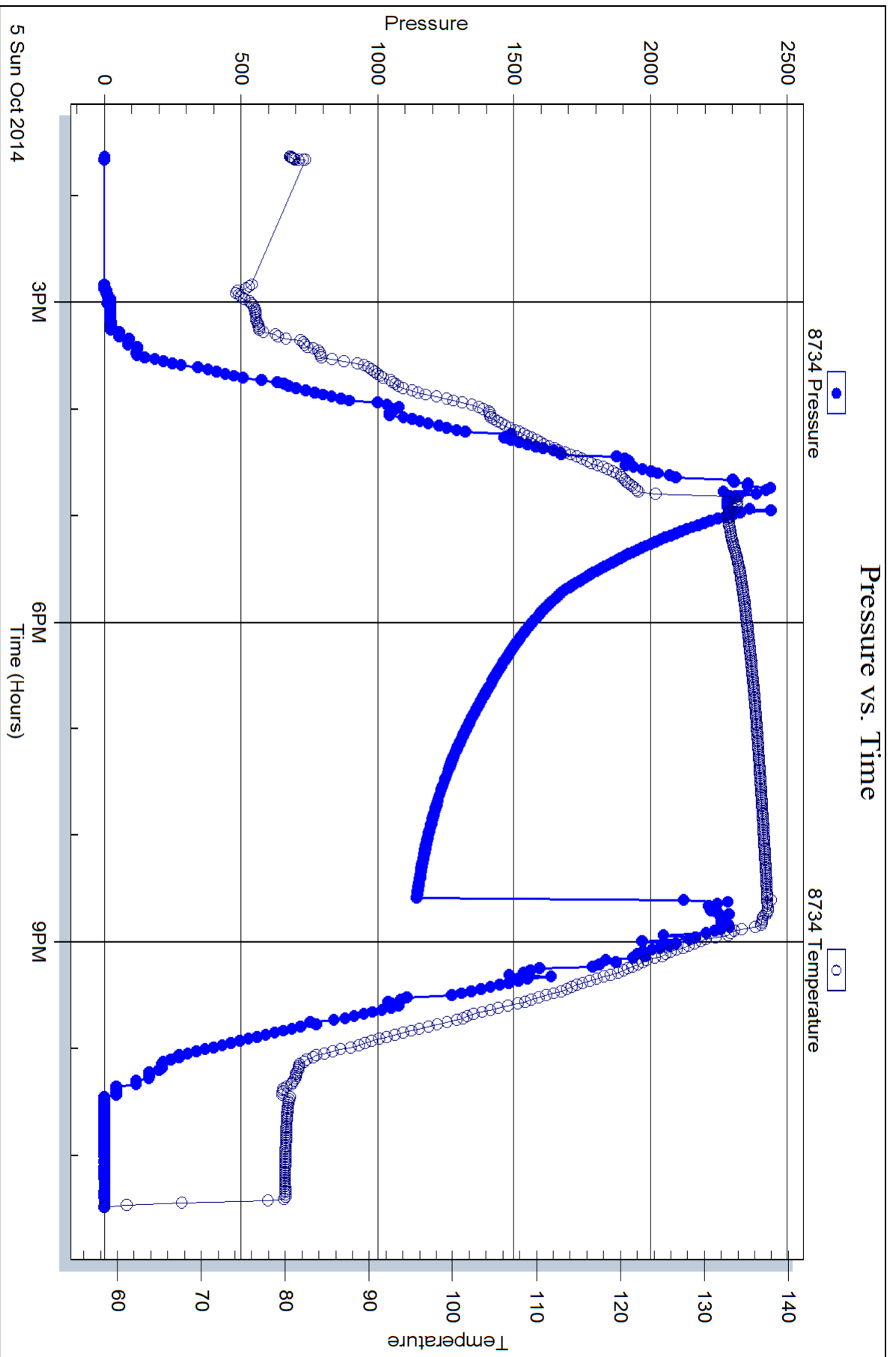
Total Length: 340.00 ft Total Volume: 3.075 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: OIL API = 26 @ 50 DEG F = 27 COR 60 DEG F
Sampler - 700ml o - 1300 ml G - 2000ml total - 150 PSI





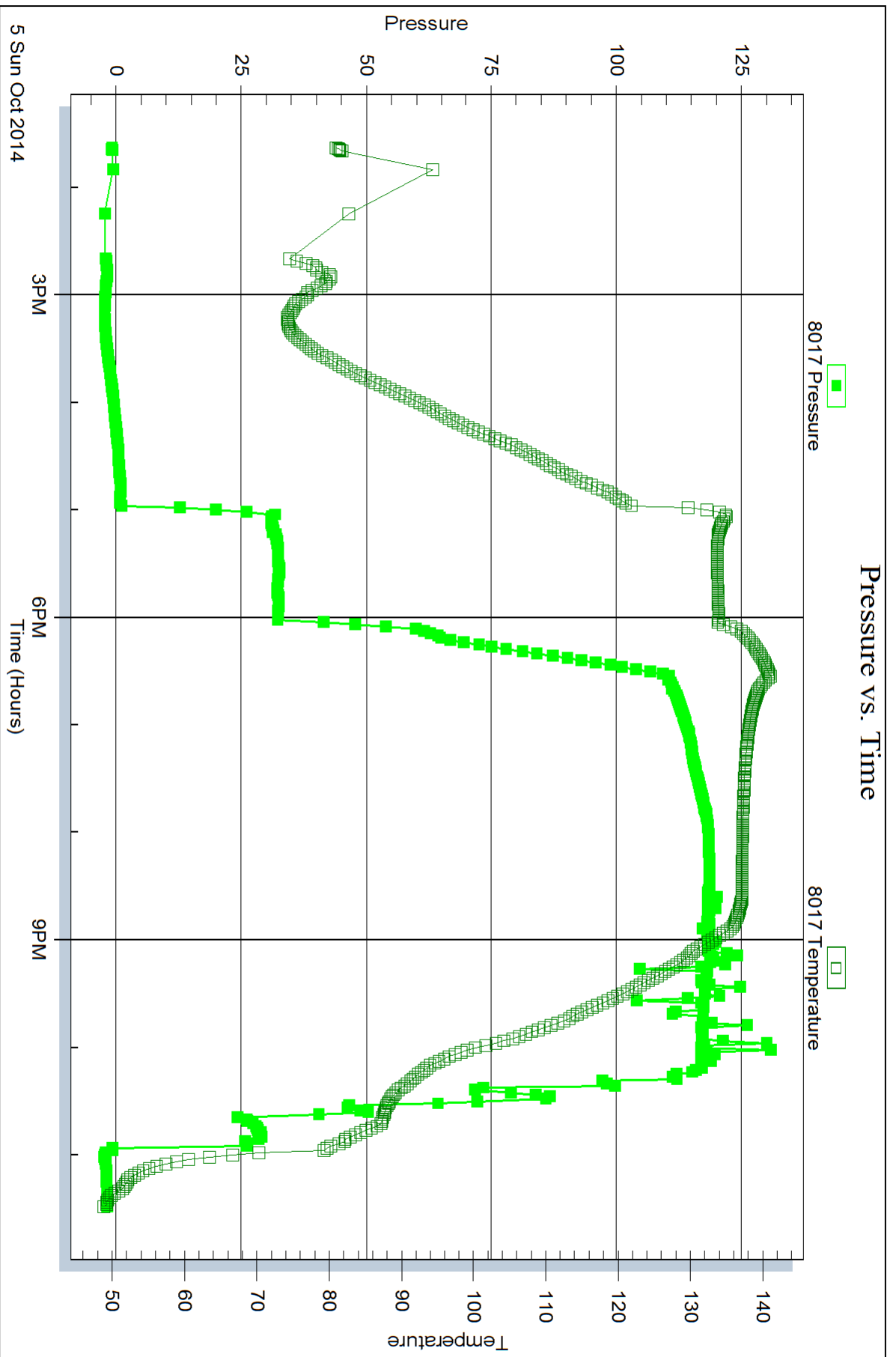
Serial #: 8017

Fluid

SGA Inc.

Fisher Cattle #1-12

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60025

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