



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. Associates Inc

1-4S-36W Rawlins KS

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Clayton Camozzi

Fisher Cattle Co#1-1

Job Ticket: 58294 **DST#: 4**

Test Start: 2014.08.14 @ 05:21:00

GENERAL INFORMATION:

Formation: **Altamont " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:37:20

Time Test Ended: 14:35:00

Test Type: Conventional Straddle (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 4519.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 3267.00 ft (KB)

Total Depth: 4930.00 ft (KB) (TVD)

3262.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 16.12 psig @ 4520.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.14

End Date:

2014.08.14

Last Calib.: 2014.08.14

Start Time: 05:21:01

End Time:

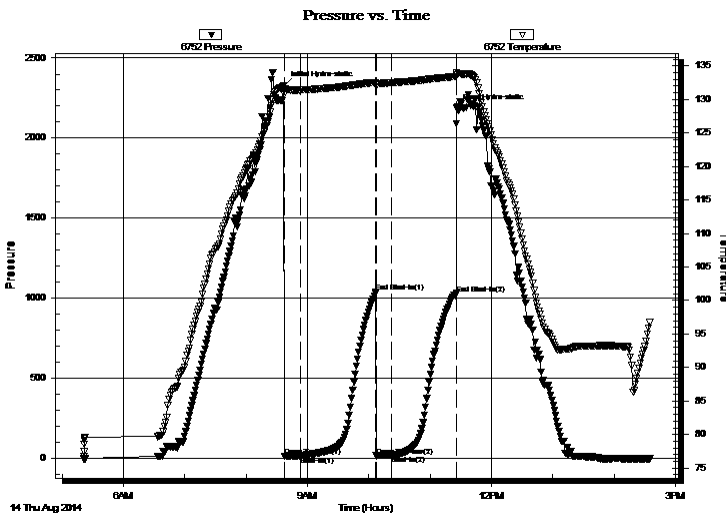
14:35:00

Time On Btm: 2014.08.14 @ 08:37:10

Time Off Btm: 2014.08.14 @ 11:26:00

TEST COMMENT: 15 IF - Surface blow
75 ISI - No return
15 FF - No blow
60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.81	131.94	Initial Hydro-static
1	12.64	130.71	Open To Flow (1)
16	15.71	131.39	Shut-In(1)
90	1037.49	132.56	End Shut-In(1)
90	14.98	131.89	Open To Flow (2)
105	16.12	132.49	Shut-In(2)
169	1028.74	133.42	End Shut-In(2)
169	2186.64	133.64	Final Hydro-static

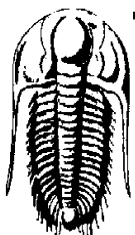
Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

* Recovery from multiple tests

Gas Rates

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



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Unit No: 78

Interval: **4519.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: 4930.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3267.00 ft (KB)

3262.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734

Fluid

Press @ Run Depth: psig @ 4485.00 ft (KB)

Start Date: 2014.08.14

End Date:

2014.08.14

Start Time: 05:21:01

End Time:

14:34:49

Capacity: 8000.00 psig

Last Calib.: 2014.08.14

Time On Btm:

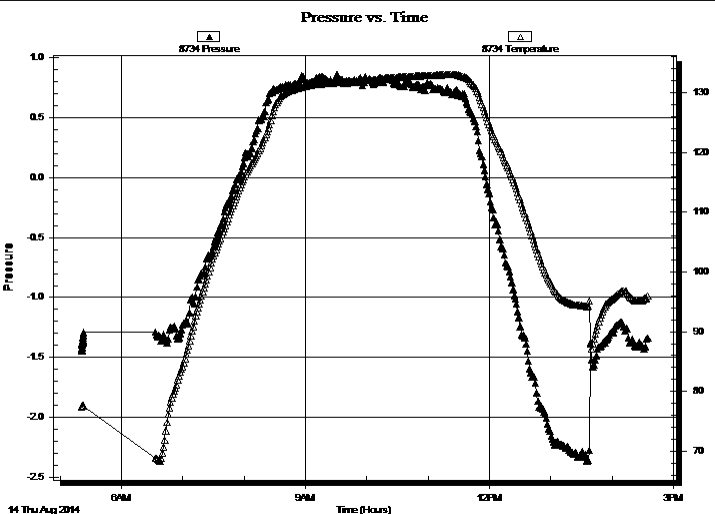
Time Off Btm:

TEST COMMENT: 15 IF - Surface blow

75 ISI - No return

15 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

Gas Rates

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

* Recovery from multiple tests



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1-4S-36W Rawlins KS

Fisher Cattle Co#1-1

Job Ticket: 58294

DST#: 4

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Time Tool Opened: 08:37:20

Time Test Ended: 14:35:00

Test Type: Conventional Straddle (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 4519.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 3267.00 ft (KB)

Total Depth: 4930.00 ft (KB) (TVD)

3262.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press @ RunDepth: psig @ 4520.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.14

End Date: 2014.08.14

Last Calib.: 2014.08.14

Start Time: 05:21:01

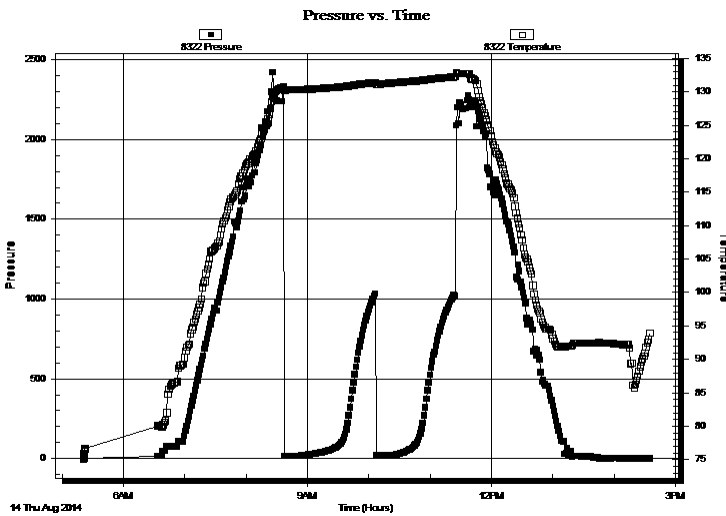
End Time: 14:35:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 15 IF - Surface blow
75 ISI - No return
15 FF - No blow
60 FSI - No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

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1-4S-36W Rawlins KS

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Clayton Camozzi

Fisher Cattle Co#1-1

Job Ticket: 58294 **DST#: 4**
Test Start: 2014.08.14 @ 05:21:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

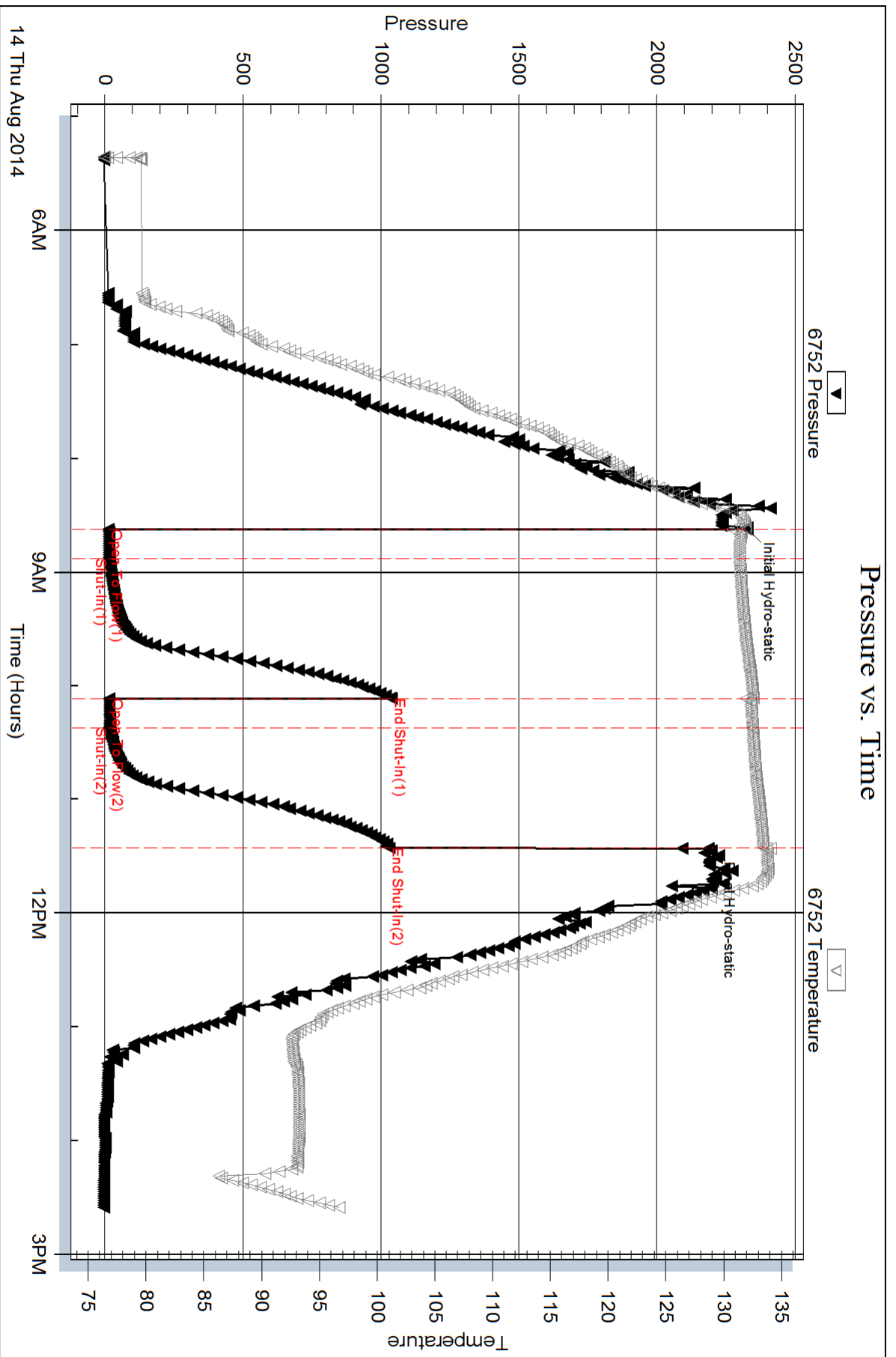
Length ft	Description	Volume bbl
1.00	Mud 100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: OS = 2000ml M



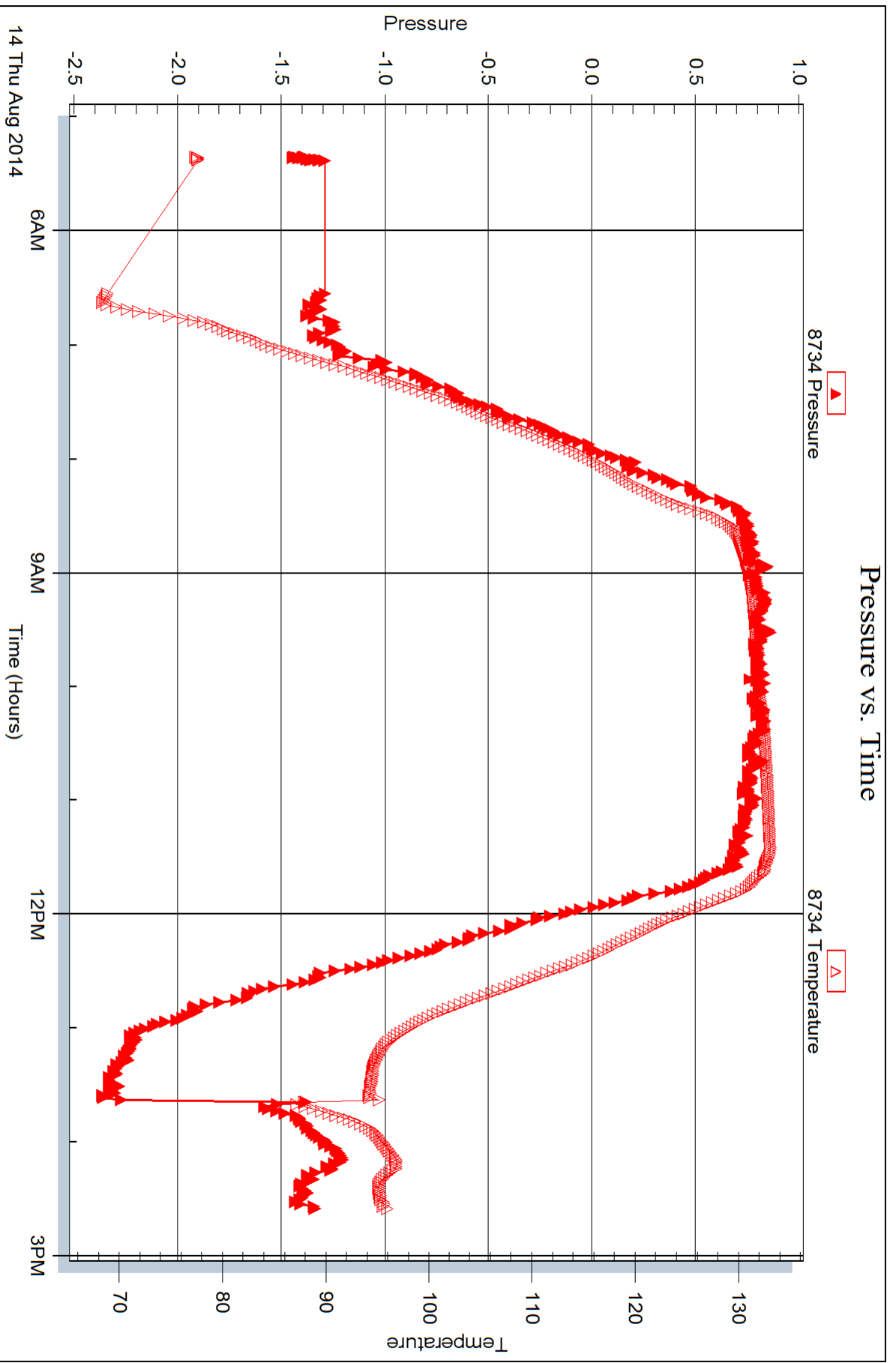
Serial #: 8734

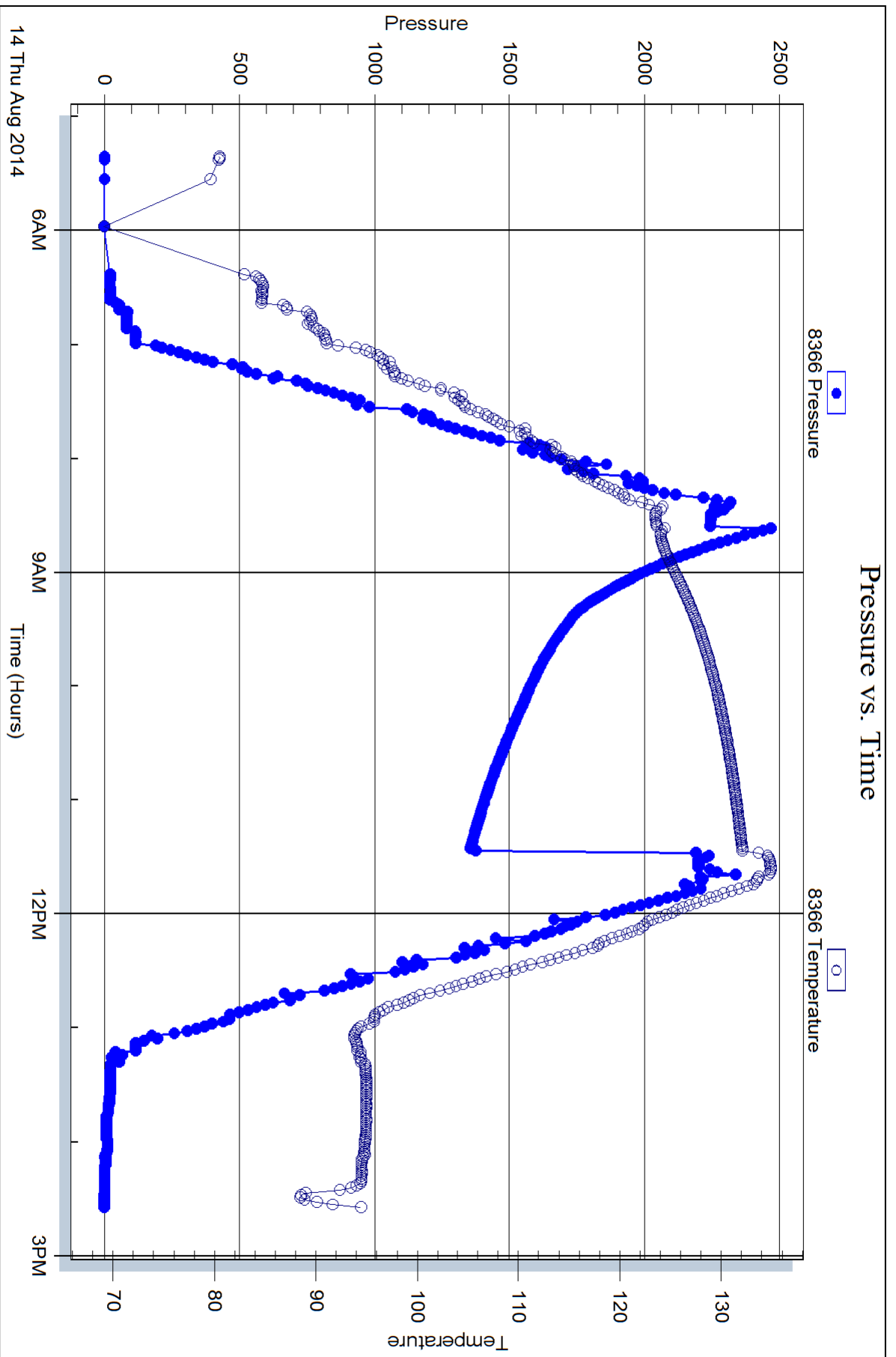
Fluid

Sam Gary Jr. Associates Inc

Fisher Cattle Co#1-1

DST Test Number: 4





Serial #: 8322

Outside Sam Gary Jr. Associates Inc

Fisher Cattle Co#1-1

DST Test Number: 4

