



DRILL STEM TEST REPORT

Prepared For: **Coachman Energy Operating Comp. LLC**

1125 17th st. Suite 410
Denver, CO 80202

ATTN: Bruce Ard

Holcomb #1-7-14-34

7-14s-34w Logan,KS

Start Date: 2016.05.25 @ 13:25:16

End Date: 2016.05.25 @ 20:28:16

Job Ticket #: 61856 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Coachman Energy Operating Comp. LLC

7-14s-34w Logan,KS

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Denver, CO 80202

Holcomb #1-7-14-34

ATTN: Bruce Ard

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DST#: 1

Test Start: 2016.05.25 @ 13:25:16

GENERAL INFORMATION:

Formation: **Ft Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:25:31

Time Test Ended: 20:28:16

Test Type: Conventional Straddle (Initial)

Tester: Shane McBride

Unit No: 84

Interval: 4415.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3040.00 ft (KB)

Total Depth: 4590.00 ft (KB) (TVD)

3035.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9120 Outside

Press@RunDepth: 58.72 psig @ 4416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.25

End Date:

2016.05.25

Last Calib.:

2016.05.25

Start Time: 13:25:16

End Time:

20:28:16

Time On Btm:

2016.05.25 @ 15:25:16

Time Off Btm:

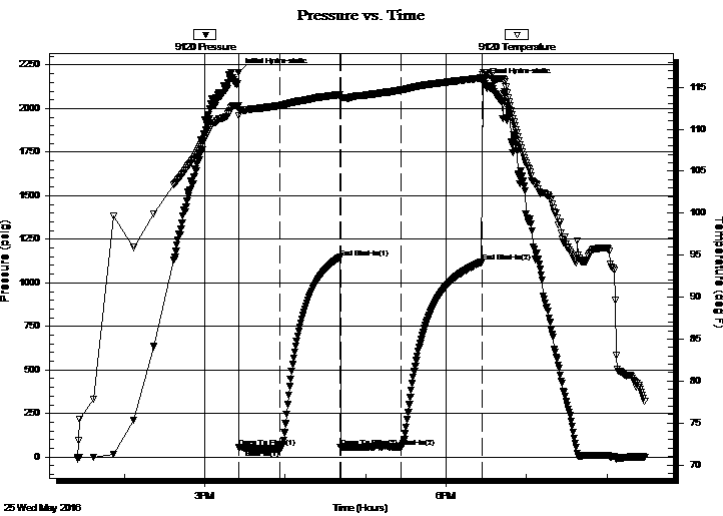
2016.05.25 @ 18:27:16

TEST COMMENT: Surface blow died in 12 min

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.42	112.84	Initial Hydro-static
1	55.96	111.61	Open To Flow (1)
31	47.37	112.80	Shut-In(1)
76	1145.42	114.12	End Shut-In(1)
76	56.98	113.65	Open To Flow (2)
121	58.72	114.66	Shut-In(2)
182	1120.47	116.10	End Shut-In(2)
182	2148.00	116.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%M	0.02

Gas Rates

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



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TOOL DIAGRAM

Coachman Energy Operating Comp. LLC

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DST#: 1

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Test Start: 2016.05.25 @ 13:25:16

Tool Information

Drill Pipe:	Length: 4300.00 ft	Diameter: 3.80 inches	Volume: 60.32 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4415.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4459.00 ft			
Interval between Packers:	44.00 ft			
Tool Length:	172.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4388.00	
Shut In Tool	5.00			4393.00	
Hydraulic tool	5.00			4398.00	
Jars	5.00			4403.00	
Safety Joint	3.00			4406.00	
Packer	5.00			4411.00	28.00 Bottom Of Top Packer
Packer	4.00			4415.00	
Stubb	1.00			4416.00	
Recorder	0.00	9120	Outside	4416.00	
Recorder	0.00	8353	Inside	4416.00	
Perforations	5.00			4421.00	
Change Over Sub	1.00			4422.00	
Drill Pipe	32.00			4454.00	
Change Over Sub	1.00			4455.00	
Blank Off Sub	1.00			4456.00	
top of s.packer	3.00			4459.00	44.00 Tool Interval
Packer	0.00			4459.00	
Stubb	1.00			4460.00	
Anchor	1.00			4461.00	
Change Over Sub	1.00			4462.00	
Recorder	0.00	8938	Below	4462.00	
Drill Pipe	93.00			4555.00	
Change Over Sub	1.00			4556.00	
Bullnose	3.00			4559.00	100.00 Bottom Packers & Anchor
Total Tool Length:	172.00				



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FLUID SUMMARY

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Holcomb #1-7-14-34

Job Ticket: 61856

DST#: 1

ATTN: Bruce Ard

Test Start: 2016.05.25 @ 13:25:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

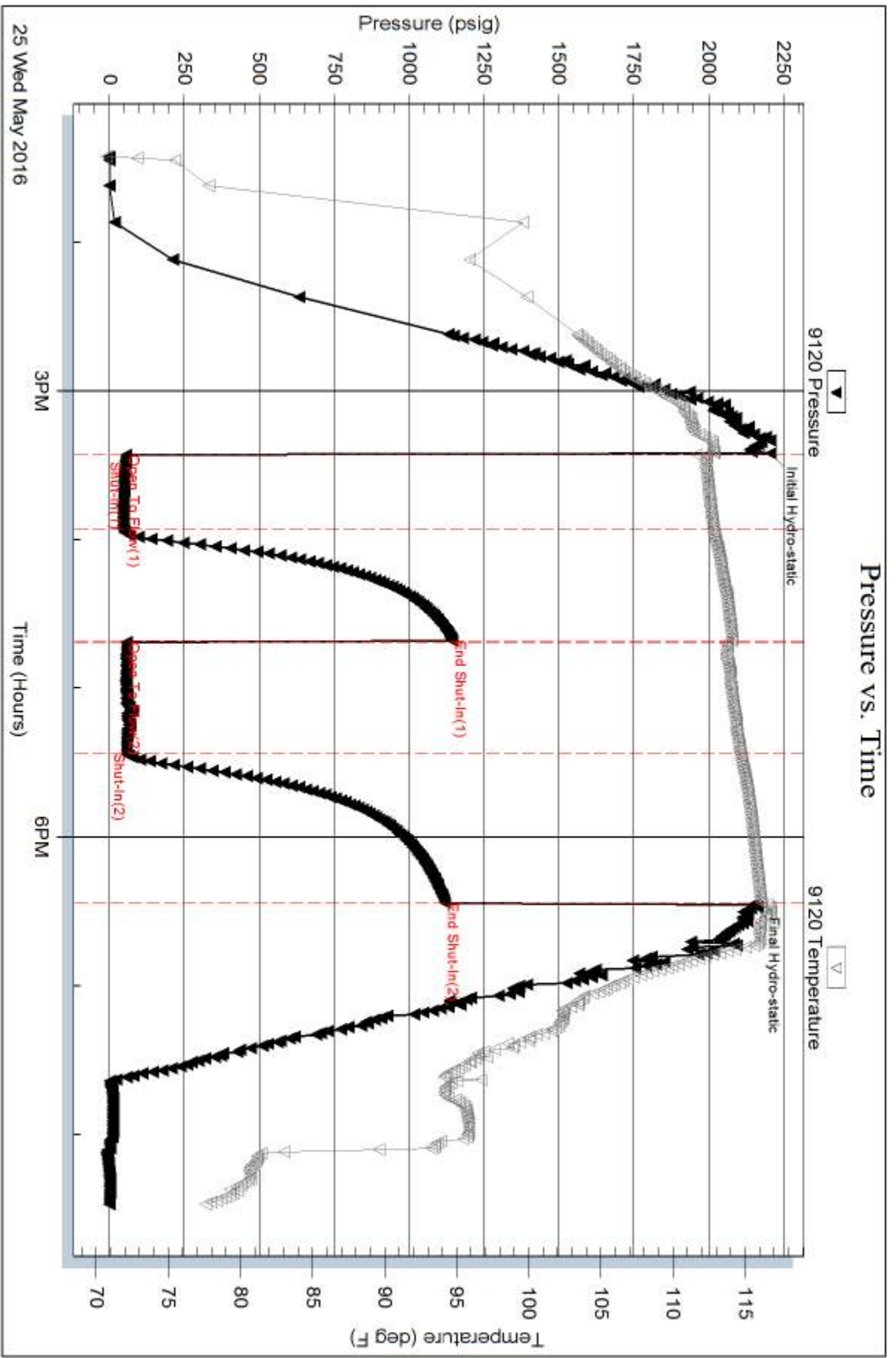
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



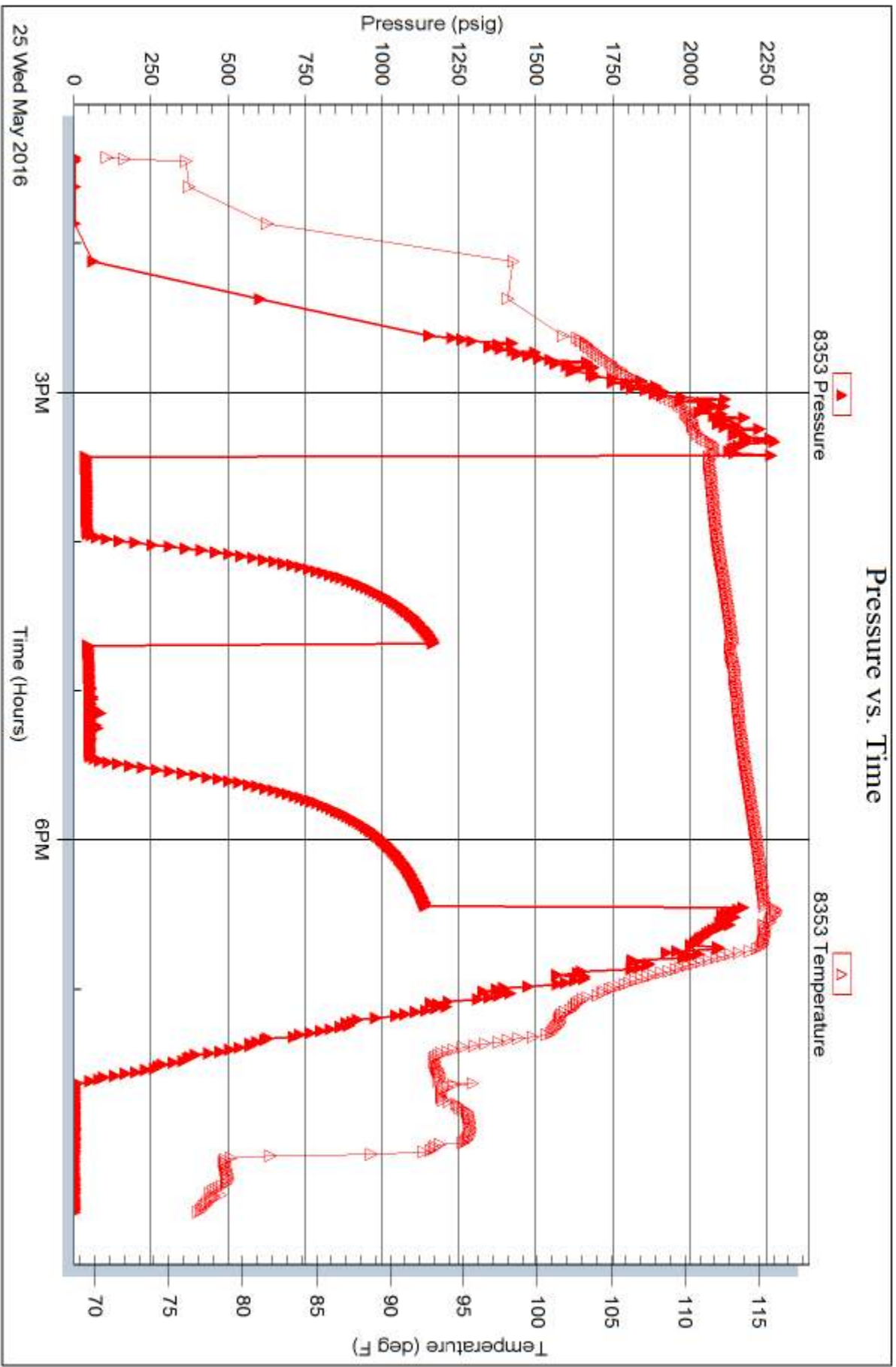
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Inside

Coachman Energy Operating Comp. LLC

Holcomb #1-7-14-34

DST Test Number: 1

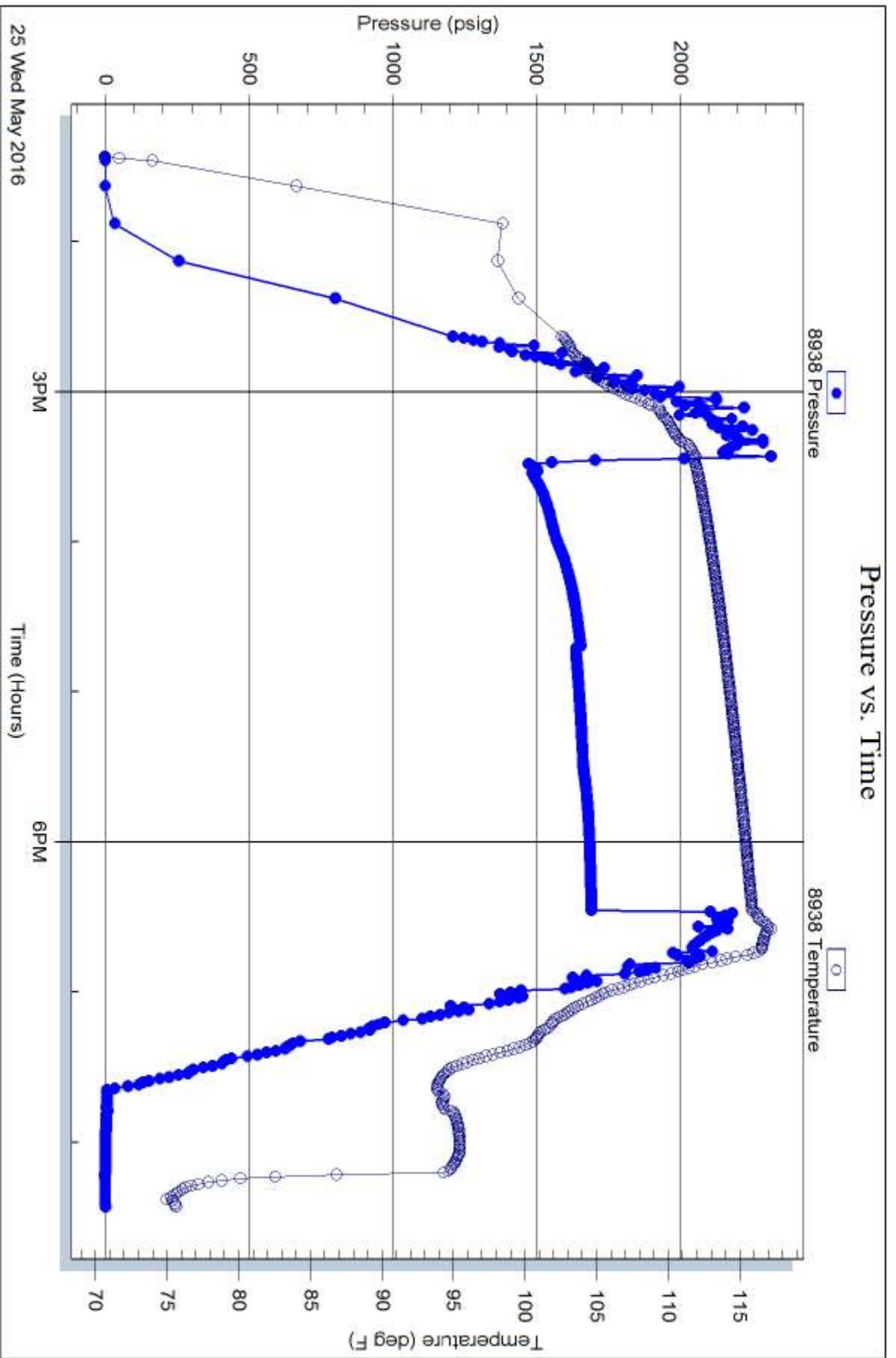


Serial #: 8938

Below (Stratton) Energy Operating Comp. LLC

Holcomb #1-7-14-34

DST Test Number: 1



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Ref. No: 61856

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