

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1515 Wynkoop
Suite
Denver, CO. 80202

ATTN: Tom Fertal

Wagner Family #1-5

5-16s-15w-Barton

Start Date: 2011.11.14 @ 15:41:34

End Date: 2011.11.14 @ 20:33:49

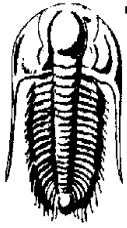
Job Ticket #: 44689 DST #: 1

Trilobite Testing, Inc

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

Printed: 2011.11.16 @ 11:15:50

Samuel Gary Jr. & Associates
5-16s-15w-Barton
Wagner Family #1-5
DST # 1
D
2011.11.14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates
 1515 Wynkoop Suite
 Denver, CO. 80202
 ATTN: Tom Fertal

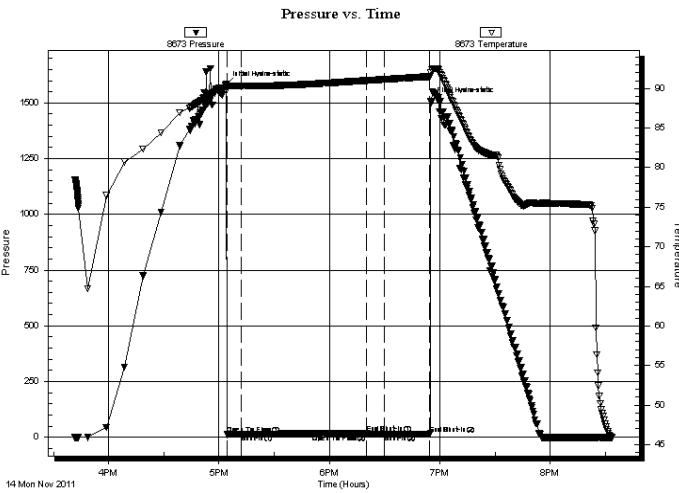
5-16s-15w-Barton
Wagner Family #1-5
 Job Ticket: 44689 **DST#: 1**
 Test Start: 2011.11.14 @ 15:41:34

GENERAL INFORMATION:

Formation: **D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:04:19
 Time Test Ended: 20:33:49
 Interval: **3250.00 ft (KB) To 3265.00 ft (KB) (TVD)**
 Total Depth: 3265.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1950.00 ft (KB)
 1940.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8673 Inside
 Press@RunDepth: 13.29 psig @ 3252.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.14 End Date: 2011.11.14 Last Calib.: 2011.11.14
 Start Time: 15:41:36 End Time: 20:33:49 Time On Btm: 2011.11.14 @ 17:04:04
 Time Off Btm: 2011.11.14 @ 18:55:04

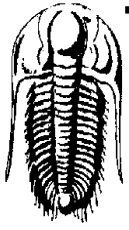
TEST COMMENT: IFP-5 Min, Surge On Open, Dead After
 IS-60 Min. Dead
 FFP-10 Min. Dead
 FSI-30 Min. Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.17	90.56	Initial Hydro-static
1	12.47	89.82	Open To Flow (1)
8	13.14	90.33	Shut-In(1)
76	18.82	91.01	End Shut-In(1)
77	12.94	91.01	Open To Flow (2)
86	13.29	91.15	Shut-In(2)
111	14.31	91.52	End Shut-In(2)
111	1508.67	92.02	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	Mud in Sampler	0.00

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



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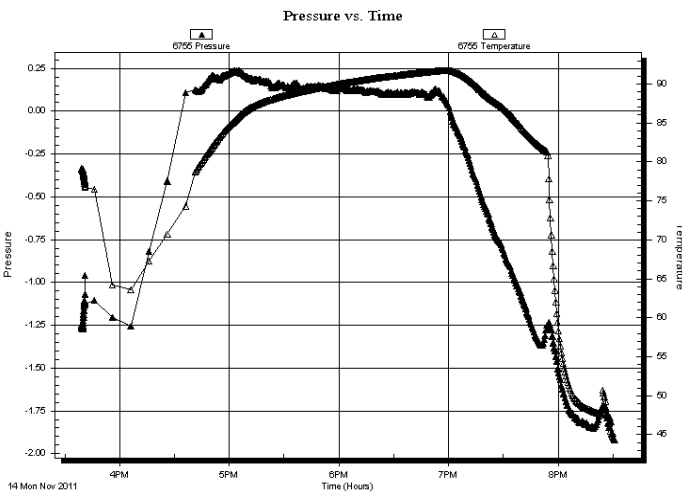
Job Ticket: 44689 **DST#: 1**
Test Start: 2011.11.14 @ 15:41:34

GENERAL INFORMATION:

Formation: D				Test Type: Conventional Bottom Hole (Initial)
Deviated: No	Whipstock: ft (KB)			Tester: Jason McLemore
Time Tool Opened: 17:04:19				Unit No: 54
Time Test Ended: 20:33:49				Reference Elevations: 1950.00 ft (KB)
Interval: 3250.00 ft (KB) To 3265.00 ft (KB) (TVD)				1940.00 ft (CF)
Total Depth: 3265.00 ft (KB) (TVD)				KB to GR/CF: 10.00 ft
Hole Diameter: 7.80 inches	Hole Condition: Good			

Serial #: 6755	Fluid				
Press@RunDepth: psig @ 3216.00 ft (KB)		Capacity: 8000.00 psig			
Start Date: 2011.11.14	End Date: 2011.11.14	Last Calib.: 2011.11.14			
Start Time: 15:39:07	End Time: 20:31:05	Time On Btm:			
		Time Off Btm:			

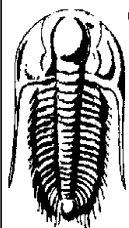
TEST COMMENT: IFP-5 Min, Surge On Open, Dead After
ISI-60 Min. Dead
FFP-10 Min. Dead
FSI-30 Min. Dead



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	Mud in Sampler	0.00

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



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Wagner Family #1-5

Job Ticket: 44689 **DST#: 1**
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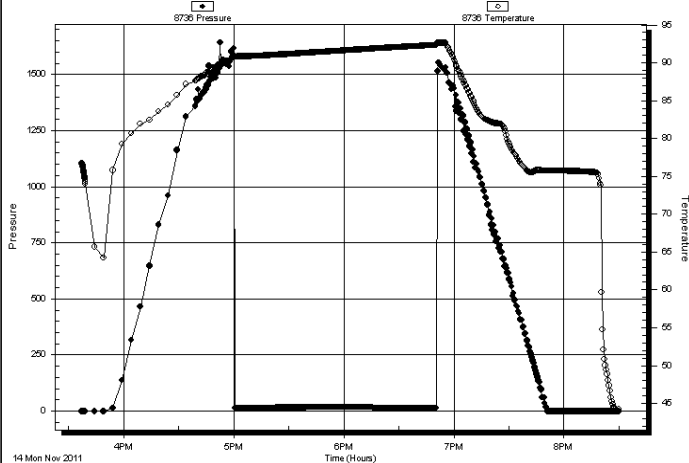
Serial #: 8736

Outside

Press@RunDepth: psig @ 3252.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.14 End Date: 2011.11.14 Last Calib.: 2011.11.14
 Start Time: 15:37:12 End Time: 20:30:06 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-5 Min, Surge On Open, Dead After
 IS-60 Min. Dead
 FFP-10 Min. Dead
 FSI-30 Min. Dead

Pressure vs. Time



PRESSURE SUMMARY

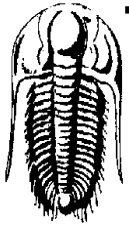
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Mud in Sampler	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

5-16s-15w-Barton

1515 Wynkoop
Suite
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ATTN: Tom Fertal

Wagner Family #1-5

Job Ticket: 44689 **DST#: 1**
Test Start: 2011.11.14 @ 15:41:34

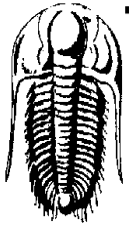
Tool Information

Drill Pipe:	Length: 3225.00 ft	Diameter: 3.80 inches	Volume: 45.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3250.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	6755	Fluid	3216.00	
Change Over Sub	5.00			3221.00	
Shut In Tool	5.00			3226.00	
Sampler	2.00			3228.00	
Hydraulic tool	5.00			3233.00	
Jars	5.00			3238.00	
Safety Joint	2.00			3240.00	
Packer	5.00			3245.00	34.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	1.00			3252.00	
Recorder	0.00	8673	Inside	3252.00	
Recorder	0.00	8736	Outside	3252.00	
Perforations	10.00			3262.00	
5	3.00			3265.00	15.00 Bottom Packers & Anchor

Total Tool Length: 49.00



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FLUID SUMMARY

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Wagner Family #1-5

Job Ticket: 44689 **DST#: 1**
Test Start: 2011.11.14 @ 15:41:34

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Mud in Sampler	0.000

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler, 0#, 2000ml Mud

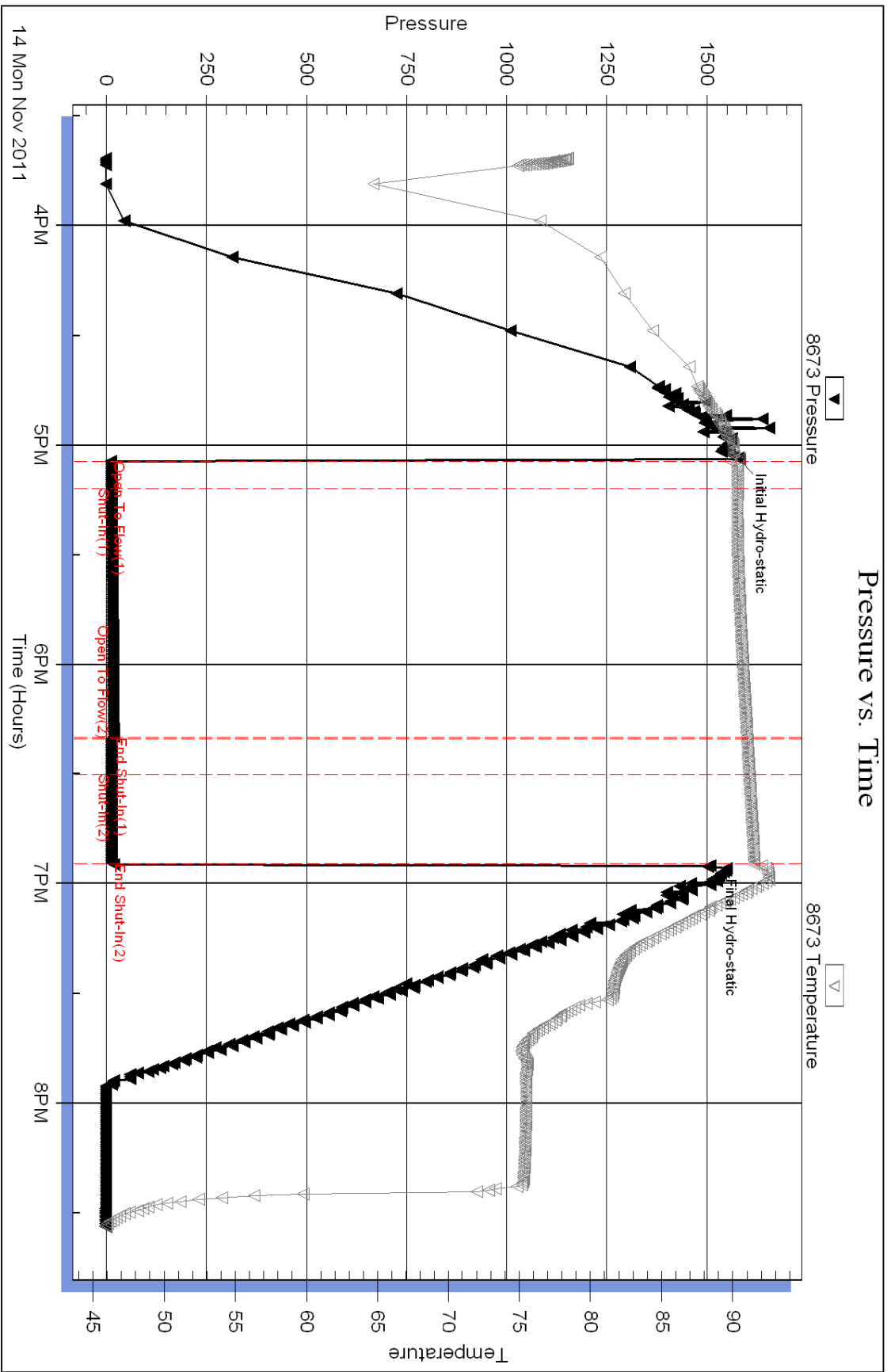
Serial #: 8673

Inside

Samuel Gary Jr. & Associates

Wagner Family #1-5

DST Test Number: 1



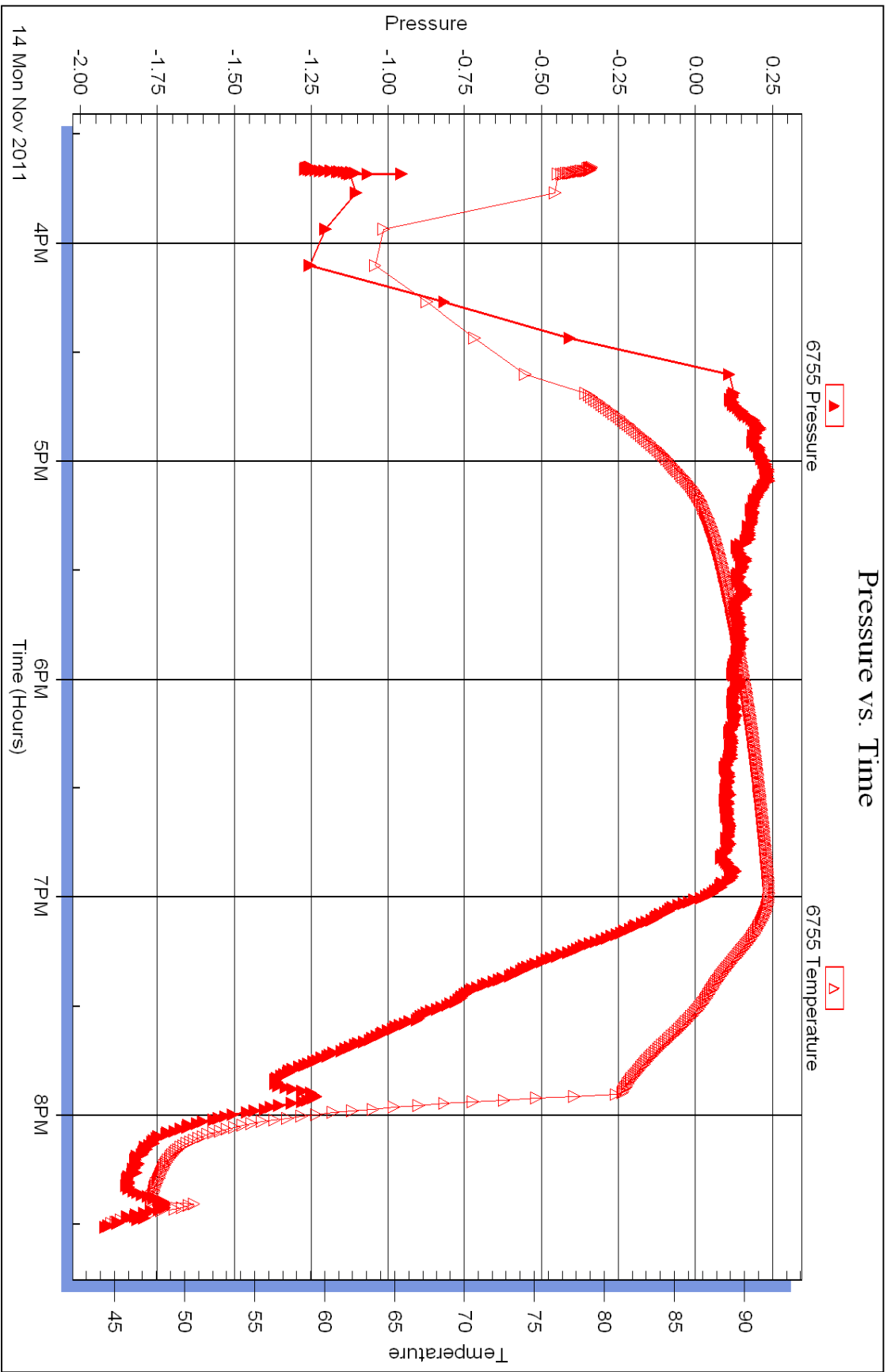
Serial #: 6755

Fluid

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Wagner Family #1-5

DST Test Number: 1



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Ref. No: 44689

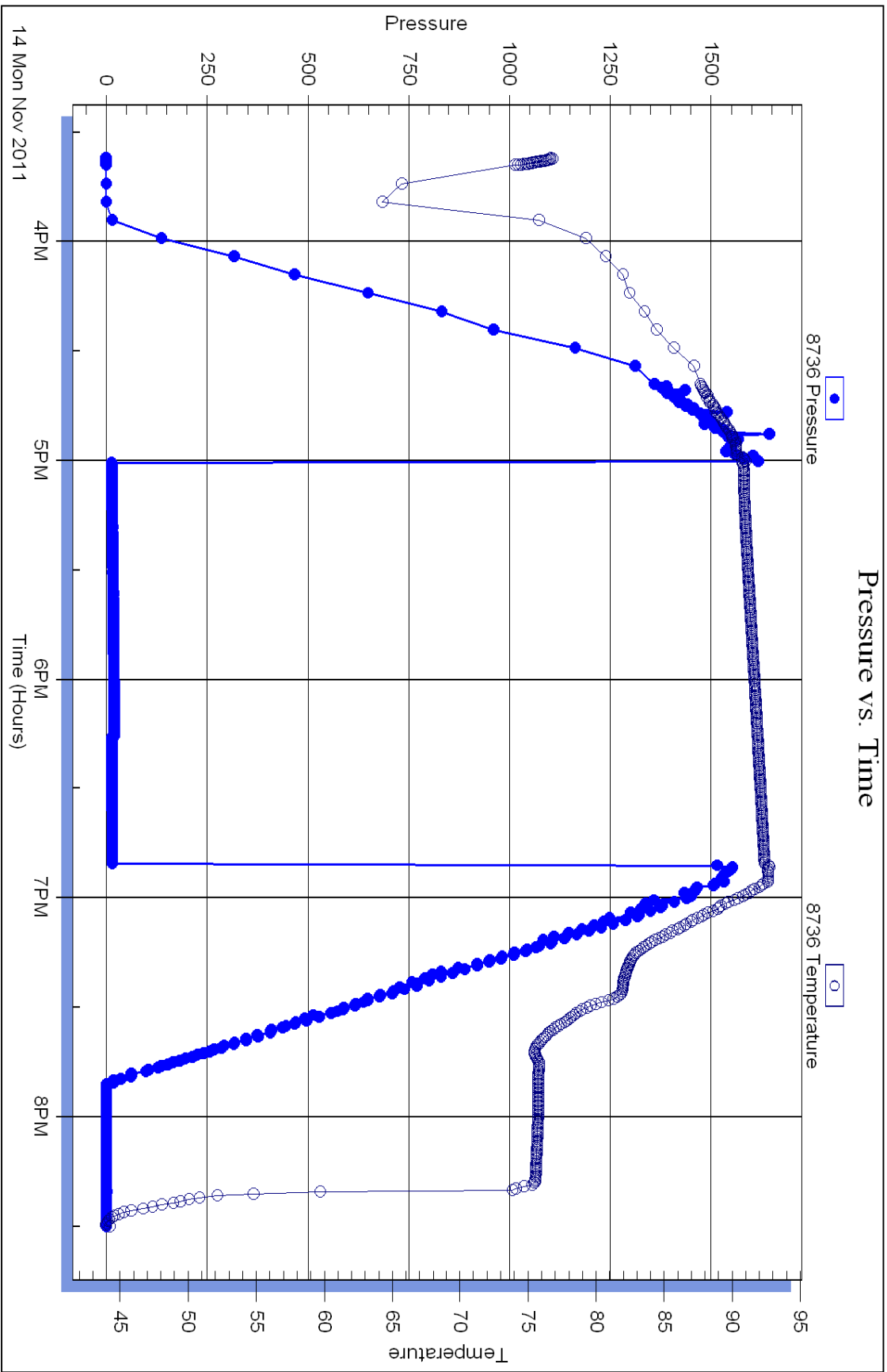
Printed: 2011.11.16 @ 11:16:00

Serial #: 8736

Outside Samuel Gary Jr. & Associates

Wagner Family #1-5

DST Test Number: 1



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