



DRILL STEM TEST REPORT

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

1515 Wynkoop St Suite 700 Dever CO 80202

ATTN: Chris Mitchell

30-14s-17w Ellis,KS

Copper-Dietz et al #1-30

Start Date: 2012.08.11 @ 06:56:40

End Date: 2012.08.11 @ 13:24:40

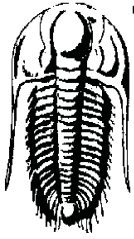
Job Ticket #: 49349 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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Printed: 2012.08.15 @ 09:45:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary, Jr & Associates
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Job Ticket: 49349 **DST#: 3**
Test Start: 2012.08.11 @ 06:56:40

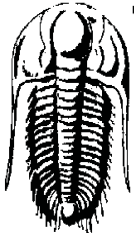
Tool Information

Drill Pipe:	Length: 3378.00 ft	Diameter: 3.80 inches	Volume: 47.38 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 47.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3400.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8679	Fluid	3366.00	
Stubb	5.00			3371.00	
Shut In Tool	5.00			3376.00	
Sampler	2.00			3378.00	
Hydraulic tool	5.00			3383.00	
Jars	5.00			3388.00	
Safety Joint	3.00			3391.00	
Packer	4.00			3395.00	34.00 Bottom Of Top Packer
Packer	5.00			3400.00	
Stubb	1.00			3401.00	
Perforations	3.00			3404.00	
Recorder	0.00	8321	Inside	3404.00	
Recorder	0.00	8737	Outside	3404.00	
Perforations	33.00			3437.00	
Bullnose	3.00			3440.00	40.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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FLUID SUMMARY

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Job Ticket: 49349 **DST#: 3**
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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:	57.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.98 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD with oil spots	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2000 MI of MUD 50 PSI

Serial #: 8321

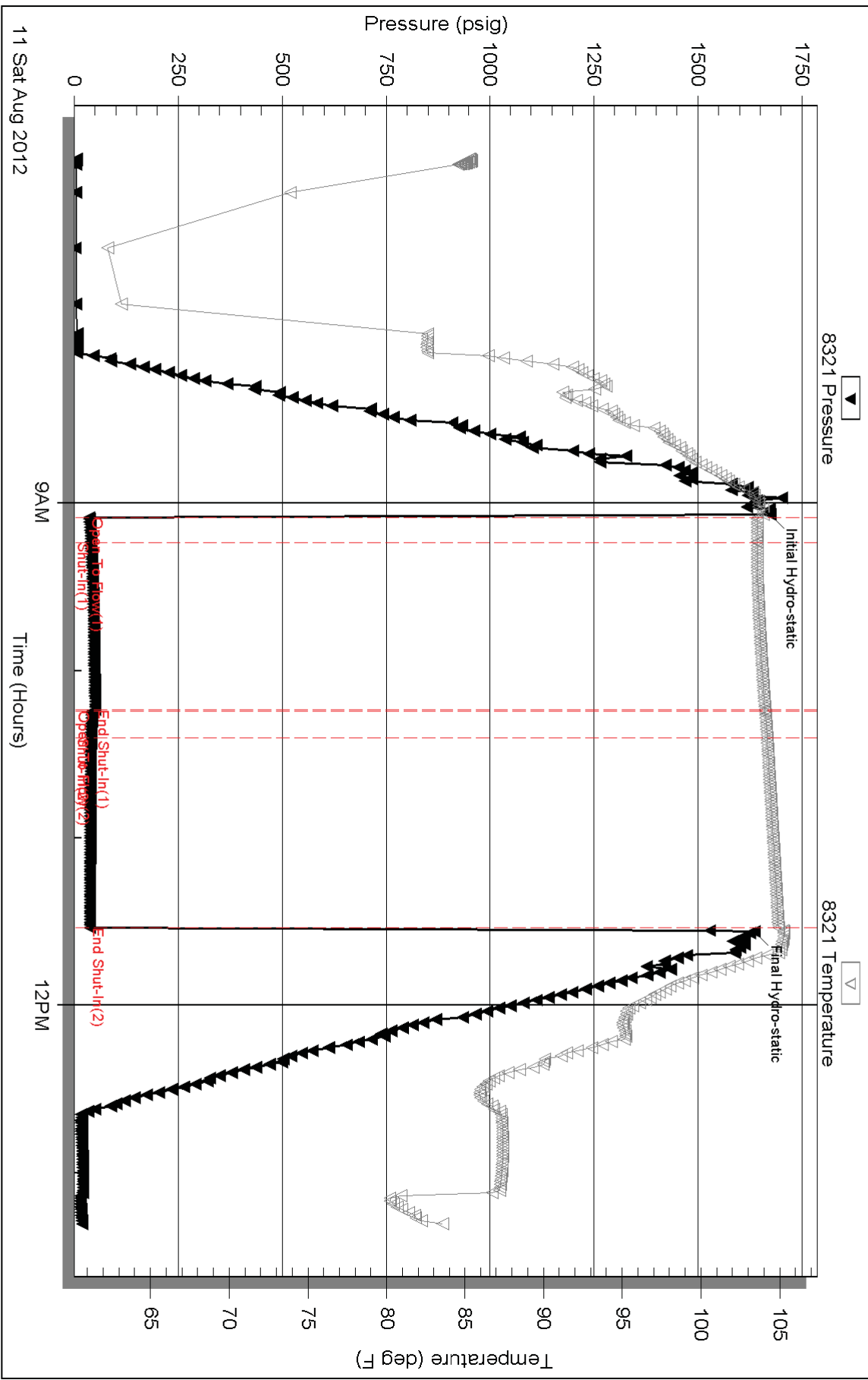
Inside

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DST Test Number: 3

Pressure vs. Time



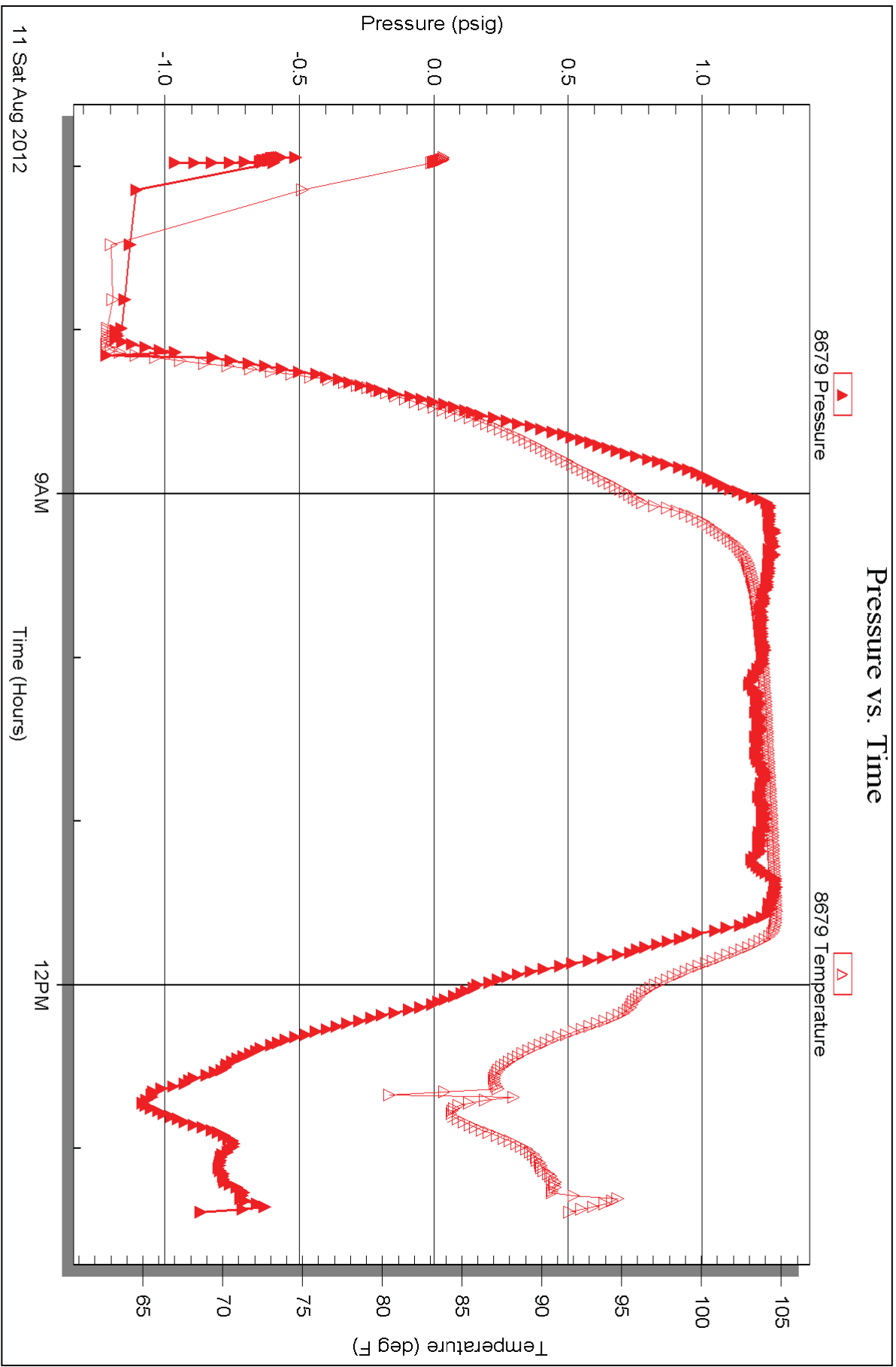
Serial #: 8679

Fluid

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DST Test Number: 3



Serial #: 8737

Outside Samuel Gary, Jr & Associates

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