



DRILL STEM TEST REPORT

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

1515 Wynkoop ste 700
Denver CO 80202

ATTN: Clayton Camozzi

Satterfield #1-1

1-17s-15w Barton,KS

Start Date: 2012.01.30 @ 12:24:18

End Date: 2012.01.30 @ 18:42:18

Job Ticket #: 46387 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.02 @ 14:14:51

Samuel Gary Jr & Associates Inc

1-17s-15w Barton,KS

Satterfield #1-1

DST # 2

Lansing-D

2012.01.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

1-17s-15w Barton,KS

1515 Wynkoop ste 700
Denver CO 80202

Satterfield #1-1

Job Ticket: 46387

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.30 @ 12:24:18

GENERAL INFORMATION:

Formation: **Lansing-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:48

Time Test Ended: 18:42:18

Test Type: Conventional Straddle (Reset)

Tester: Jeff Brown

Unit No: 150

Interval: **3258.00 ft (KB) To 3275.00 ft (KB) (TVD)**

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1980.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press@RunDepth: 24.73 psig @ 3259.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 12:24:19

End Time:

18:42:18

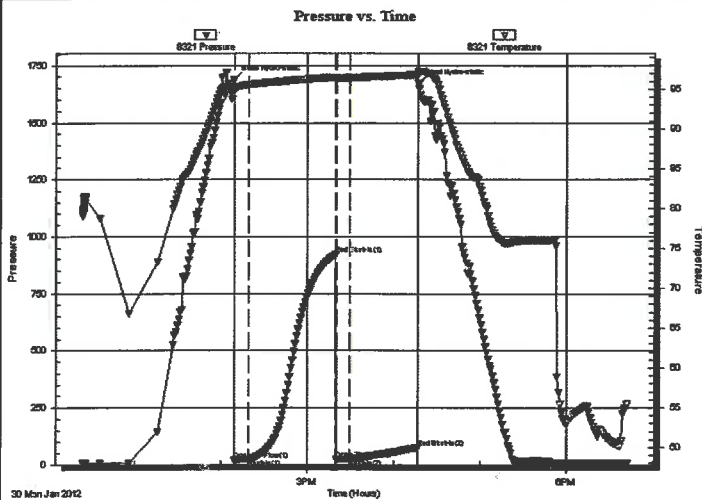
Capacity: 8000.00 psig

Last Calib.: 2012.01.30

Time On Btm: 2012.01.30 @ 14:09:18

Time Off Btm: 2012.01.30 @ 16:17:18

TEST COMMENT: IFP-10-Min-Weak blow built to 1/2
ISI-60-min-Dead no blow back
FFP-10-Min-Dead no blow
FSI-45-min-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.45	95.38	Initial Hydro-static
1	21.63	94.93	Open To Flow (1)
11	24.74	95.58	Shut-In(1)
71	924.30	96.48	End Shut-In(1)
71	26.00	96.09	Open To Flow (2)
81	24.73	96.42	Shut-In(2)
128	76.42	96.79	End Shut-In(2)
128	1670.67	97.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w ith oil spots	0.06

* Recovery from multiple tests

Gas Rates

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



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Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1980.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8679

Fluid

Press@RunDepth: psig @ 3223.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 12:24:26

End Time:

18:40:55

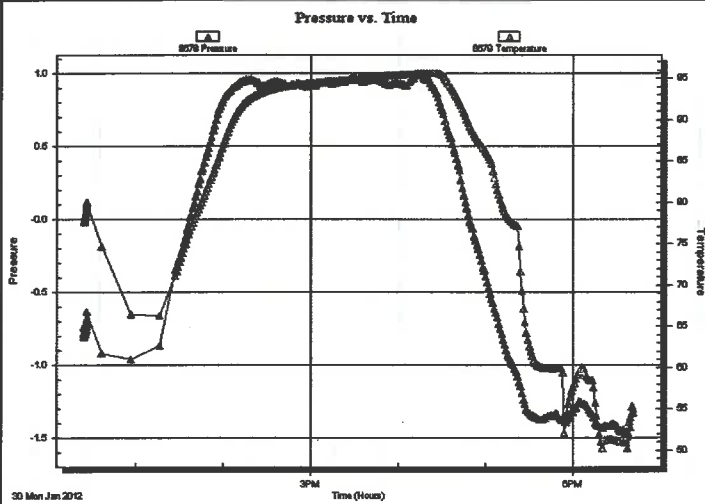
Capacity: 8000.00 psig

Last Calib.: 2012.01.30

Time On Btm

Time Off Btm

TEST COMMENT: IFF-10-Min-Weak blow built to 1/2
ISI-60-min-Dead no blow back
FFP-10-Min-Dead no blow
FSI-45-min-Dead no blow back



PRESSURE SUMMARY

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

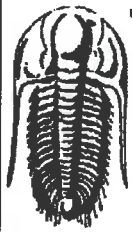
Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w ith oil spots	0.06

* Recovery from multiple tests

Gas Rates

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



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Satterfield #1-1

Job Ticket: 46387

DST#: 2

ATTN: Clayton Camozzi

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Time Test Ended: 18:42:18

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Tester: Jeff Brown

Unit No: 150

Interval: **3258.00 ft (KB) To 3275.00 ft (KB) (TVD)**

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8788

Below (Straddle)

Press@RunDepth: psig @ 3279.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.30 End Date: 2012.01.30

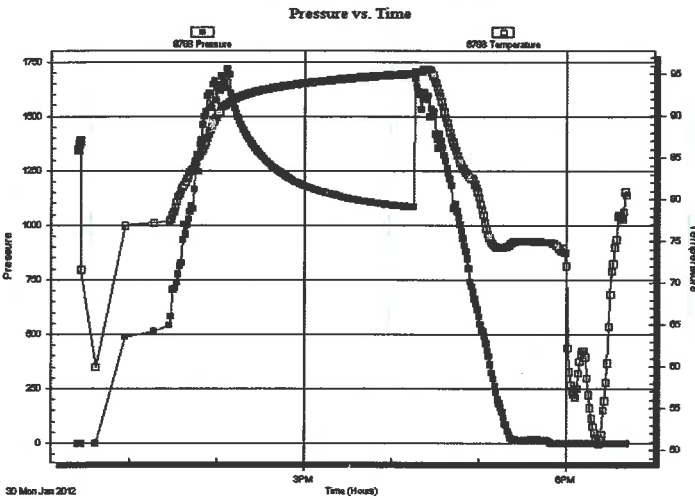
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Start Time: 12:24:22 End Time: 18:40:51

Time On Btm

Time Off Btm

TEST COMMENT: IFF-10-Min-Weak blow built to 1/2
ISI-60-min-Dead no blow back
FFP-10-Min-Dead no blow
FSI-45-min-Dead no blow back



PRESSURE SUMMARY

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

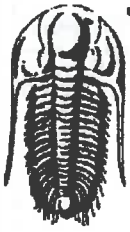
Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w ith oil spots	0.06

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates Inc

1-17s-15w Barton,KS

1515 Wynkoop ste 700
Denver CO 80202

Satterfield #1-1

Job Ticket: 46387

DST#: 2

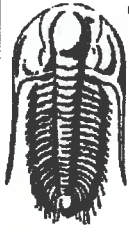
ATTN: Clayton Camozzi

Test Start: 2012.01.30 @ 12:24:18

Tool Information

Drill Pipe:	Length: 3254.00 ft	Diameter: 3.80 inches	Volume: 45.65 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: 60000.00 lb
			<u>Total Volume: 45.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3258.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	3275.00 ft			
Interval between Packers:	17.00 ft			
Tool Length:	374.00 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	8679	Fluid	3223.00	
Stubb	5.00			3228.00	
Shut In Tool	5.00			3233.00	
Sampler	3.00			3236.00	
Hydraulic tool	5.00			3241.00	
Jars	5.00			3246.00	
Safety Joint	3.00			3249.00	
Packer	4.00			3253.00	35.00 Bottom Of Top Packer
Packer	5.00			3258.00	
Stubb	1.00			3259.00	
Recorder	0.00	8321	Inside	3259.00	
Recorder	0.00	8737	Outside	3259.00	
Perforations	12.00			3271.00	
Blank Off Sub	1.00			3272.00	
Stubb	3.00			3275.00	17.00 Tool Interval
Packer	1.00			3276.00	
Stubb	1.00			3277.00	
Perforations	1.00			3278.00	
Change Over Sub	1.00			3279.00	
Recorder	0.00	8788	Below	3279.00	
Drill Pipe	314.00			3593.00	
Change Over Sub	1.00			3594.00	
Bullnose	3.00			3597.00	322.00 Bottom Packers & Anchor
Total Tool Length:	374.00				



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FLUID SUMMARY

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Satterfield #1-1

Job Ticket: 46387

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.30 @ 12:24:18

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.79 in³
Resistivity: ohm.m
Salinity: 3600.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud with oil spots	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2000 ml of total fluid 40 psi
2000 mL of mud with oil spots

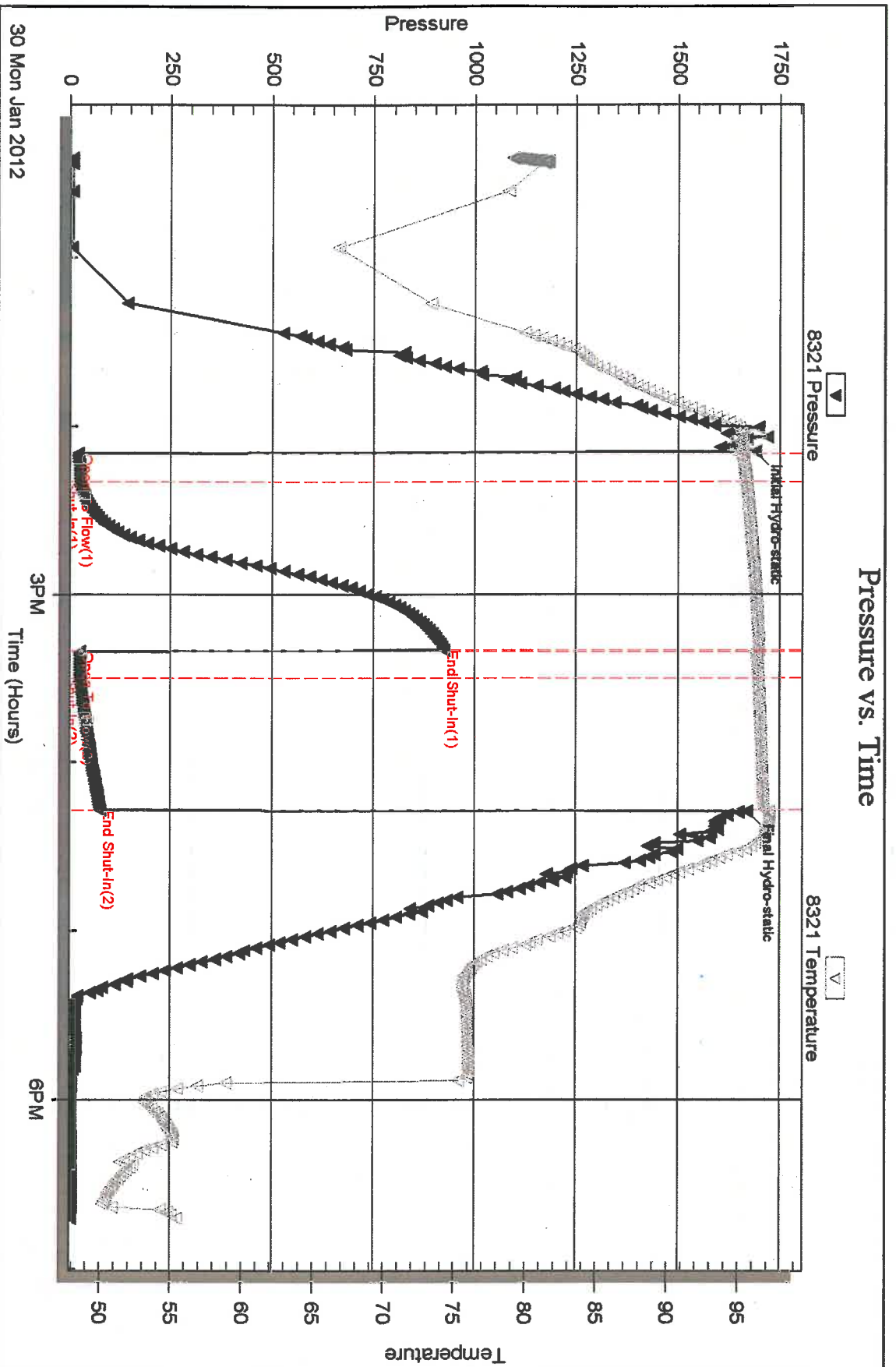
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Inside

Samuel Gary Jr & Associates Inc

Satterfield #1-1

DST Test Number: 2



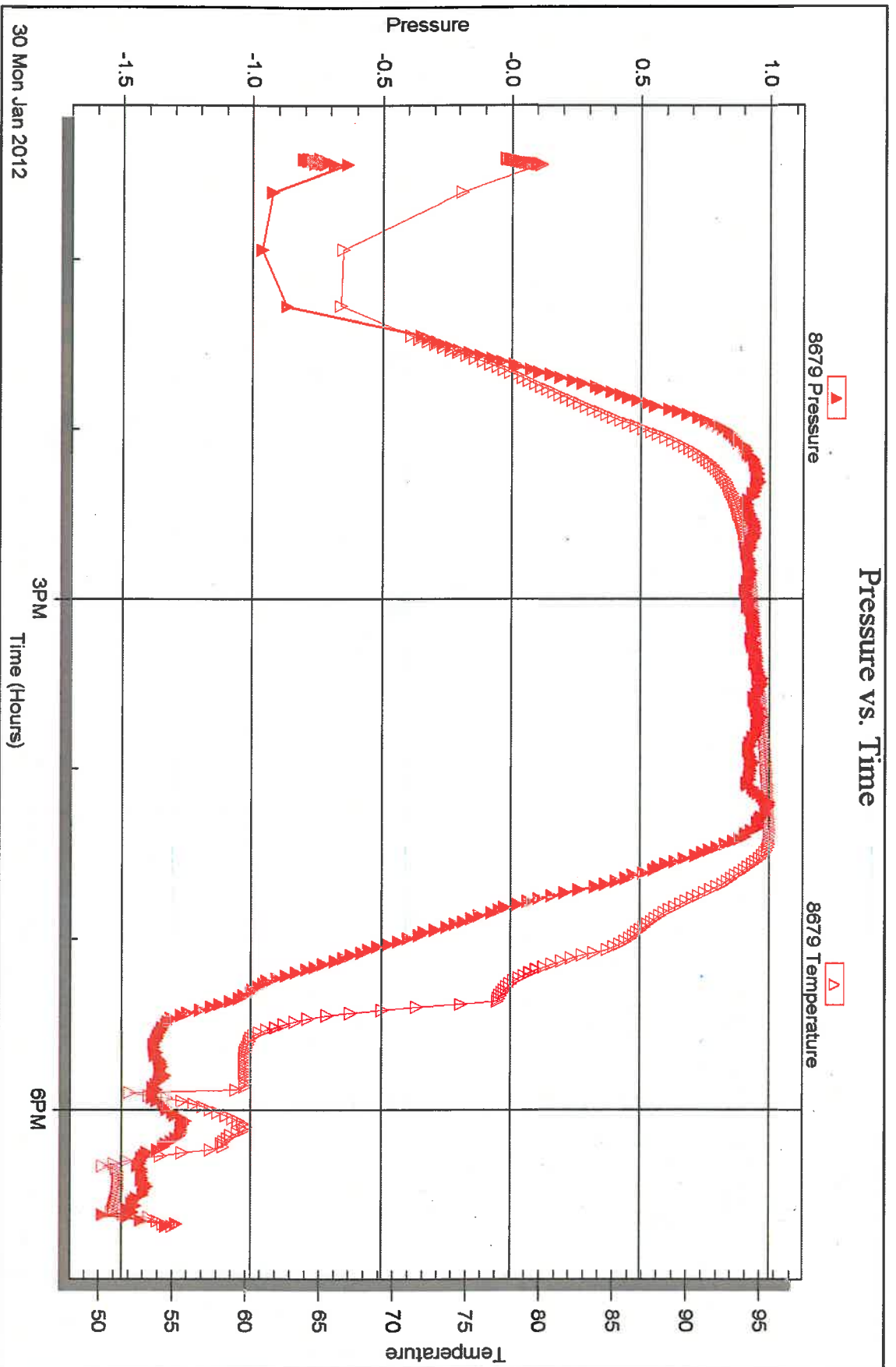
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Fluid

Samuel Gary Jr & Associates Inc

Satterfield #1-1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 46387

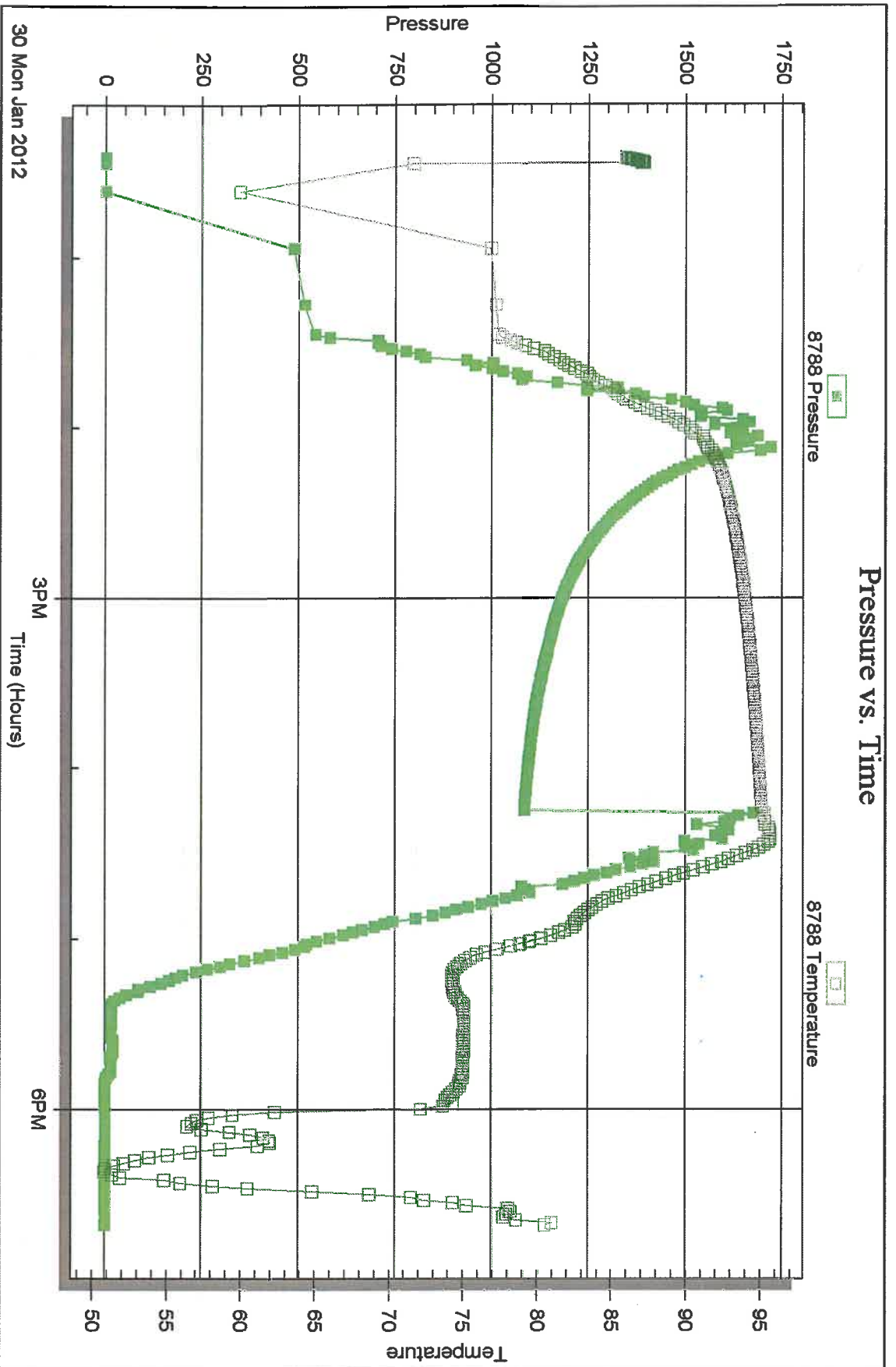
Printed: 2012.02.02 @ 14:14:54

Serial #: 8788

Below (Stratton) Gary Jr & Associates Inc

Satterfield #1-1

DST Test Number: 2



Thickrite Testing, Inc

Ref. No: 46387

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