



DRILL STEM TEST REPORT

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

1515 Wynkoop, STE 700
Denver CO 80202

ATTN: Clayton Camozzi

Hoss et al #1-22

22-16s-16w Rush, KS

Start Date: 2012.04.11 @ 13:00:36

End Date: 2012.04.11 @ 19:04:36

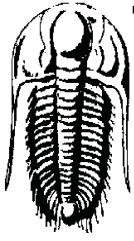
Job Ticket #: 47710 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.13 @ 09:47:36



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

22-16s-16w Rush, KS

1515 Wynkoop, STE 700
Denver CO 80202

Hoss et al #1-22

Job Ticket: 47710

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.11 @ 13:00:36

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:06

Time Test Ended: 19:04:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3294.00 ft (KB) To 3337.00 ft (KB) (TVD)

Reference Elevations: 1944.00 ft (KB)

Total Depth: 3337.00 ft (KB) (TVD)

1934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8369

Inside

Press@RunDepth: 22.10 psig @ 3295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.11

End Date:

2012.04.11

Last Calib.:

2012.04.11

Start Time: 13:00:41

End Time:

19:04:35

Time On Btm:

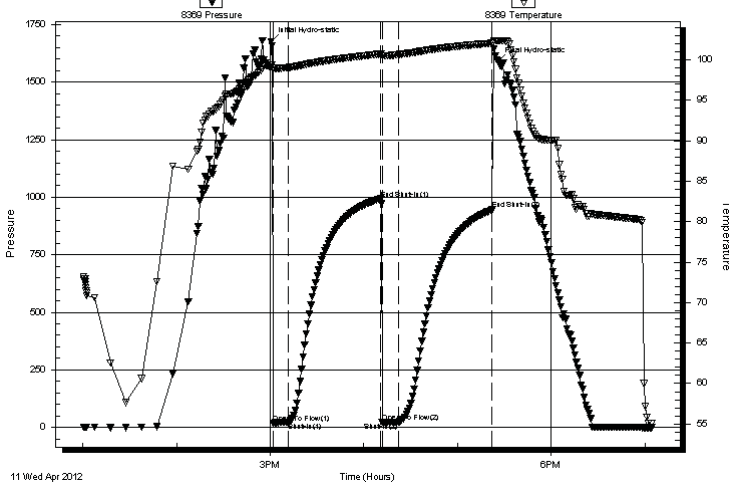
2012.04.11 @ 15:00:36

Time Off Btm:

2012.04.11 @ 17:25:36

TEST COMMENT: 10minIF-No blow
60minFF-No blow
10minFSI-No blow
60minFSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

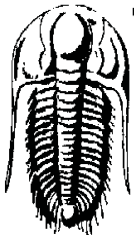
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.84	99.35	Initial Hydro-static
2	19.79	98.96	Open To Flow (1)
11	21.27	99.05	Shut-In(1)
70	993.00	100.74	End Shut-In(1)
71	22.88	100.47	Open To Flow (2)
82	22.10	100.66	Shut-In(2)
142	945.43	102.06	End Shut-In(2)
145	1590.21	102.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud	0.04

Gas Rates

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



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Hoss et al #1-22

Job Ticket: 47710

DST#: 1

Test Start: 2012.04.11 @ 13:00:36

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:06

Time Test Ended: 19:04:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3294.00 ft (KB) To 3337.00 ft (KB) (TVD)

Reference Elevations: 1944.00 ft (KB)

Total Depth: 3337.00 ft (KB) (TVD)

1934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 3295.00 ft (KB)

Start Date: 2012.04.11 End Date: 2012.04.11

Start Time: 13:00:15 End Time: 19:04:39

Capacity: 8000.00 psig

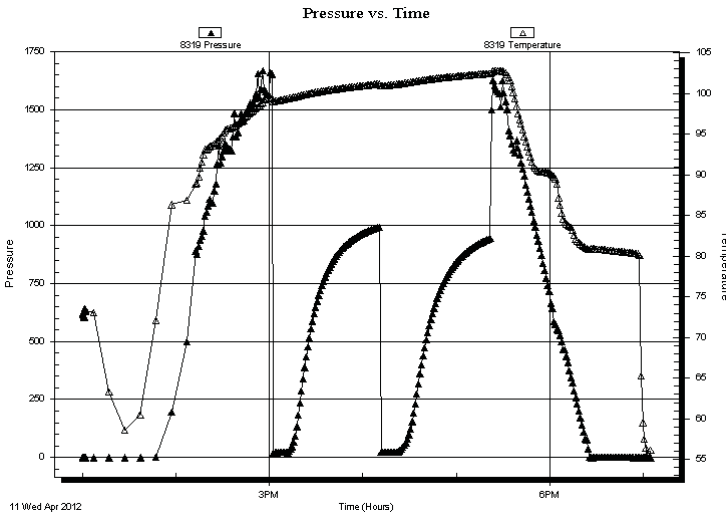
Last Calib.: 2012.04.11

Time On Btm:

Time Off Btm:

TEST COMMENT:
10minIF-No blow
60minFF-No blow
10minFSI-No blow
60minFSI-No blow

PRESSURE SUMMARY



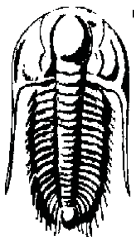
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud	0.04

Gas Rates

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



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22-16s-16w Rush, KS

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Hoss et al #1-22

Job Ticket: 47710

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.11 @ 13:00:36

GENERAL INFORMATION:

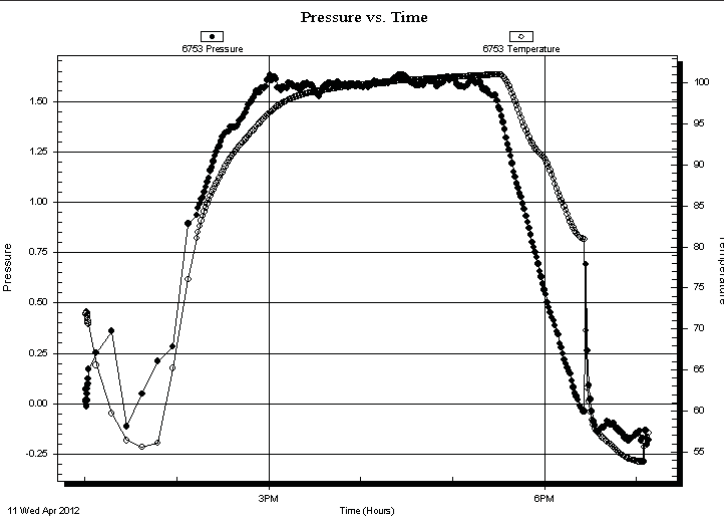
Formation: **KC "F,G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:02:06
 Time Test Ended: 19:04:36
 Interval: **3294.00 ft (KB) To 3337.00 ft (KB) (TVD)**
 Total Depth: 3337.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 1944.00 ft (KB)
 1934.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6753

Fluid

Press@RunDepth: psig @ 3265.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.11 End Date: 2012.04.11 Last Calib.: 1899.12.30
 Start Time: 13:00:29 End Time: 19:08:23 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10minIF-No blow
 60minFF-No blow
 10minFSI-No blow
 60minFSI-No blow



11 Wed Apr 2012

PRESSURE SUMMARY

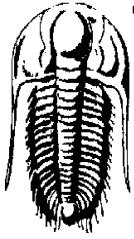
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud	0.04

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

22-16s-16w Rush, KS

1515 Wynkoop, STE 700
Denver CO 80202

Hoss et al #1-22

Job Ticket: 47710

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.11 @ 13:00:36

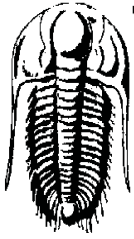
Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.80 inches	Volume: 46.15 bbl	Tool Weight: 2500.00 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: 42000.00 lb
			Total Volume: 46.15 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3294.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	5.00			3265.00	
Recorder	0.00	6753	Fluid	3265.00	
Shut In Tool	5.00			3270.00	
Sampler	2.00			3272.00	
Hydraulic tool	5.00			3277.00	
Jars	5.00			3282.00	
Safety Joint	2.00			3284.00	
Packer	5.00			3289.00	34.00 Bottom Of Top Packer
Packer	5.00			3294.00	
Stubb	1.00			3295.00	
Recorder	0.00	8369	Inside	3295.00	
Recorder	0.00	8319	Outside	3295.00	
Perforations	5.00			3300.00	
Change Over Sub	1.00			3301.00	
Drill Pipe	32.00			3333.00	
Change Over Sub	1.00			3334.00	
Bullnose	3.00			3337.00	43.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



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FLUID SUMMARY

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Hoss et al #1-22

Job Ticket: 47710

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.11 @ 13:00:36

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

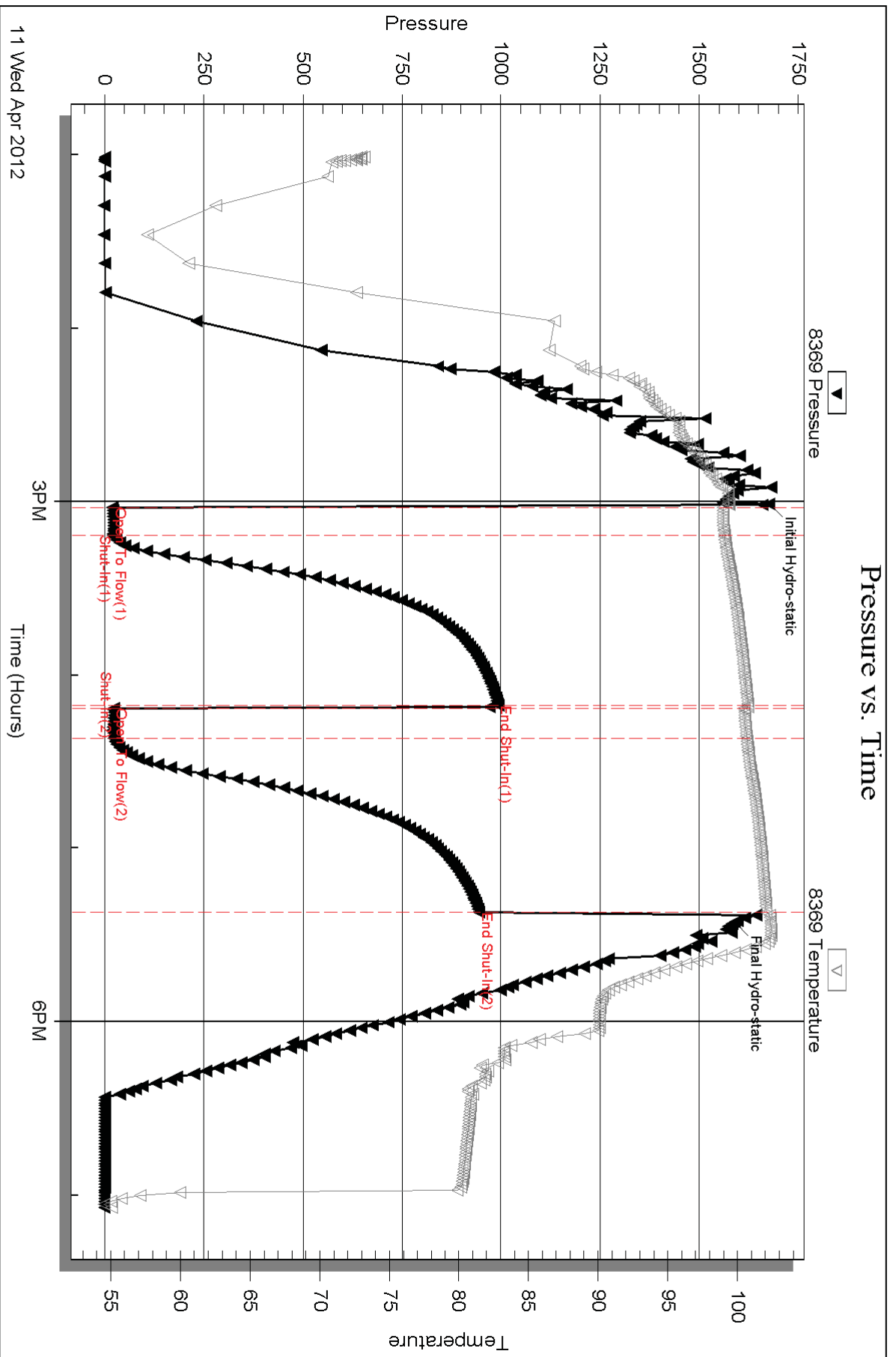
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Samplerdata 3000ml mud

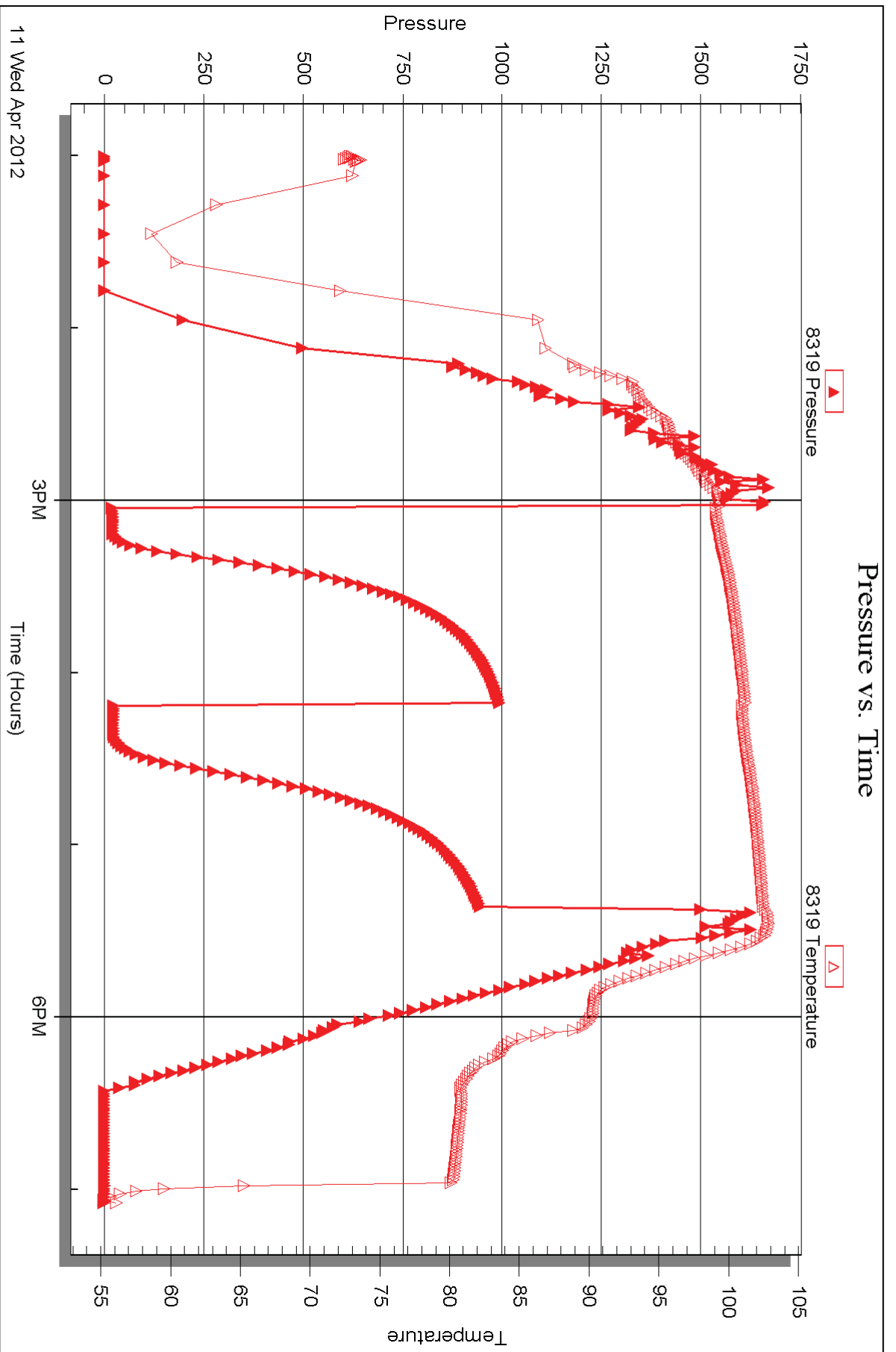


Serial #: 8319

Outside Samuel Gary Jr. & Associates

Hoss et al #1-22

DST Test Number: 1



11 Wed Apr 2012

3PM

Time (Hours)

6PM

Serial #: 6753

Fluid

Samuel Gary Jr. & Associates

Hoss et al #1-22

DST Test Number: 1

