



DRILL STEM TEST REPORT

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

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Clayton Camozzi

Sandra #1-25

25-15s-16w Ellis,KS

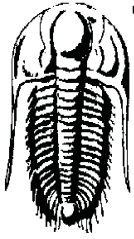
Start Date: 2012.04.23 @ 23:37:15

End Date: 2012.04.24 @ 08:39:15

Job Ticket #: 47221 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Printed: 2012.04.27 @ 16:18:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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25-15s-16w Ellis,KS

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Sandra #1-25

Job Ticket: 47221

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.23 @ 23:37:15

GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:45

Time Test Ended: 08:39:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3278.00 ft (KB) To 3354.00 ft (KB) (TVD)

Reference Elevations: 1858.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 35.35 psig @ 3282.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.23

End Date:

2012.04.24

Last Calib.:

2012.04.24

Start Time: 23:47:15

End Time:

08:39:15

Time On Btm:

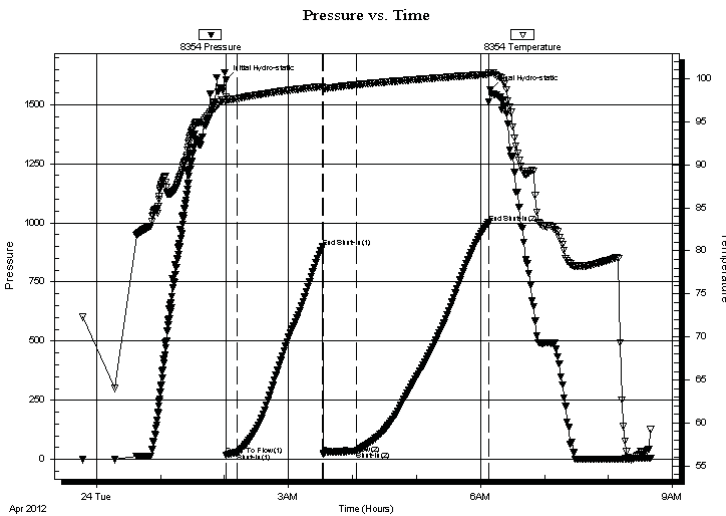
2012.04.24 @ 02:01:15

Time Off Btm:

2012.04.24 @ 06:09:15

TEST COMMENT: IF-Weak building blow . Built to 2 inches.
 IS-No Return.
 FF-Strong surge then weak building blow . Built to 9 inches.
 FS-No Return. Times-10-75-30-120

PRESSURE SUMMARY



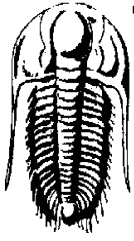
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.06	97.84	Initial Hydro-static
1	17.64	97.31	Open To Flow (1)
11	28.26	97.70	Shut-In(1)
91	898.29	99.09	End Shut-In(1)
92	22.10	98.93	Open To Flow (2)
123	35.35	99.29	Shut-In(2)
246	1000.47	100.48	End Shut-In(2)
248	1562.14	100.71	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
50.00	30%Oil/70%Mud	0.42
0.00	140' G.I.P.	0.00

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



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Time Tool Opened: 02:01:45

Time Test Ended: 08:39:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3278.00 ft (KB) To 3354.00 ft (KB) (TVD)

Reference Elevations: 1858.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3282.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.23 End Date: 2012.04.24

Last Calib.: 2012.04.24

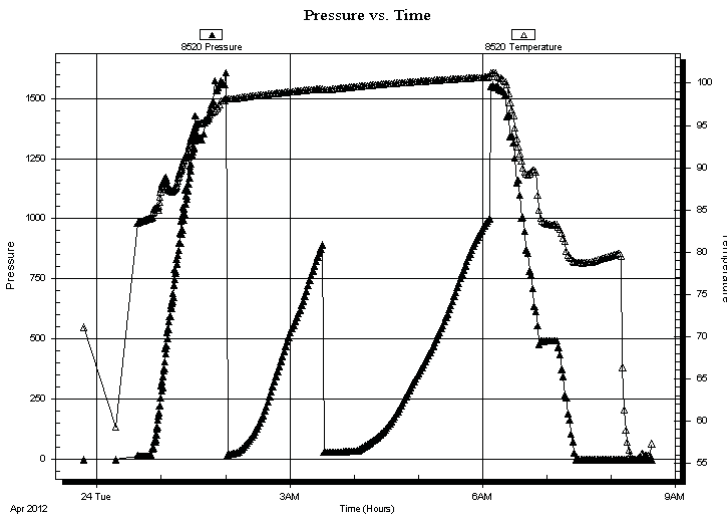
Start Time: 23:47:30 End Time: 08:38:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak building blow . Built to 2 inches.
IS-No Return.
FF-Strong surge then weak building blow . Built to 9 inches.
FS-No Return. Times-10-75-30-120

PRESSURE SUMMARY



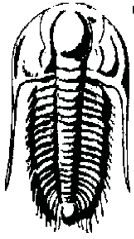
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
50.00	30%Oil/70%Mud	0.42
0.00	140' G.I.P.	0.00

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



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Job Ticket: 47221

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.23 @ 23:37:15

GENERAL INFORMATION:

Formation:	LKC "I-K"	Test Type:	Conventional Bottom Hole (Initial)	
Deviated:	No Whipstock:	ft (KB)	Tester:	Dustin Rash
Time Tool Opened:	02:01:45	Unit No:	38	
Time Test Ended:	08:39:15	Reference Elevations:	1858.00 ft (KB) 1850.00 ft (CF)	
Interval:	3278.00 ft (KB) To 3354.00 ft (KB) (TVD)	KB to GR/CF:	8.00 ft	
Total Depth:	3354.00 ft (KB) (TVD)			
Hole Diameter:	7.88 inches	Hole Condition:	Fair	

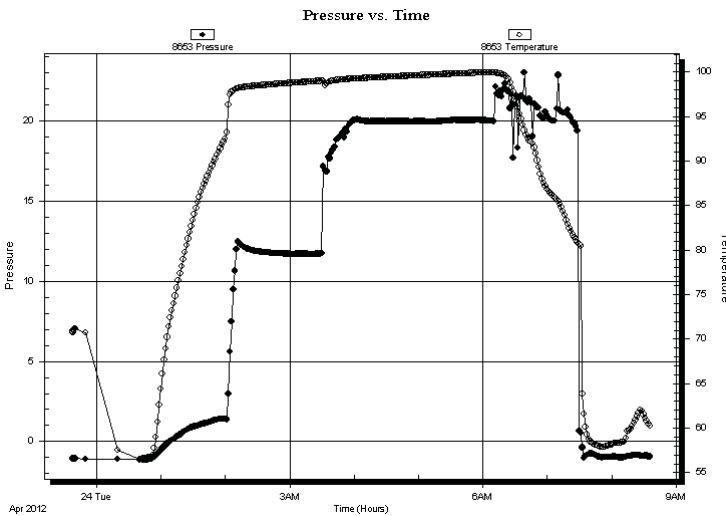
Serial #: 8653

Fluid

Press@RunDepth:	psig @ 3248.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.04.23	End Date:	2012.04.24
Start Time:	23:37:46	End Time:	08:36:45
		Time On Btm:	
		Time Off Btm:	
		Last Calib.:	2012.04.24

TEST COMMENT: IF-Weak building blow . Built to 2 inches.
 IS-No Return.
 FF-Strong surge then weak building blow . Built to 9 inches.
 FS-No Return. Times-10-75-30-120

PRESSURE SUMMARY



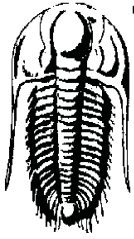
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
50.00	30%Oil/70%Mud	0.42
0.00	140' G.I.P.	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, Inc.

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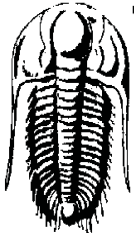
Tool Information

Drill Pipe:	Length: 3224.00 ft	Diameter: 3.80 inches	Volume: 45.22 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	4000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	7.00 ft			Final	45000.00 lb
Depth to Top Packer:	3278.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	106.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3248.00	
Change Over Sub	1.00			3249.00	
Shut In Tool	5.00			3254.00	
Sampler	2.00			3256.00	
Hydraulic tool	5.00			3261.00	
Jars	5.00			3266.00	
Safety Joint	3.00			3269.00	
Packer	5.00			3274.00	30.00 Bottom Of Top Packer
Packer	4.00			3278.00	
Stubb	1.00			3279.00	
Perforations	3.00			3282.00	
Recorder	0.00	8354	Inside	3282.00	
Recorder	0.00	8520	Outside	3282.00	
Change Over Sub	1.00			3283.00	
Drill Pipe	62.00			3345.00	
Change Over Sub	1.00			3346.00	
Perforations	5.00			3351.00	
Bullnose	3.00			3354.00	76.00 Bottom Packers & Anchor

Total Tool Length: 106.00



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Test Start: 2012.04.23 @ 23:37:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	30%Oil/70%Mud	0.419
0.00	140' G.I.P.	0.000

Total Length: 50.00 ft Total Volume: 0.419 bbl

Num Fluid Samples: 0

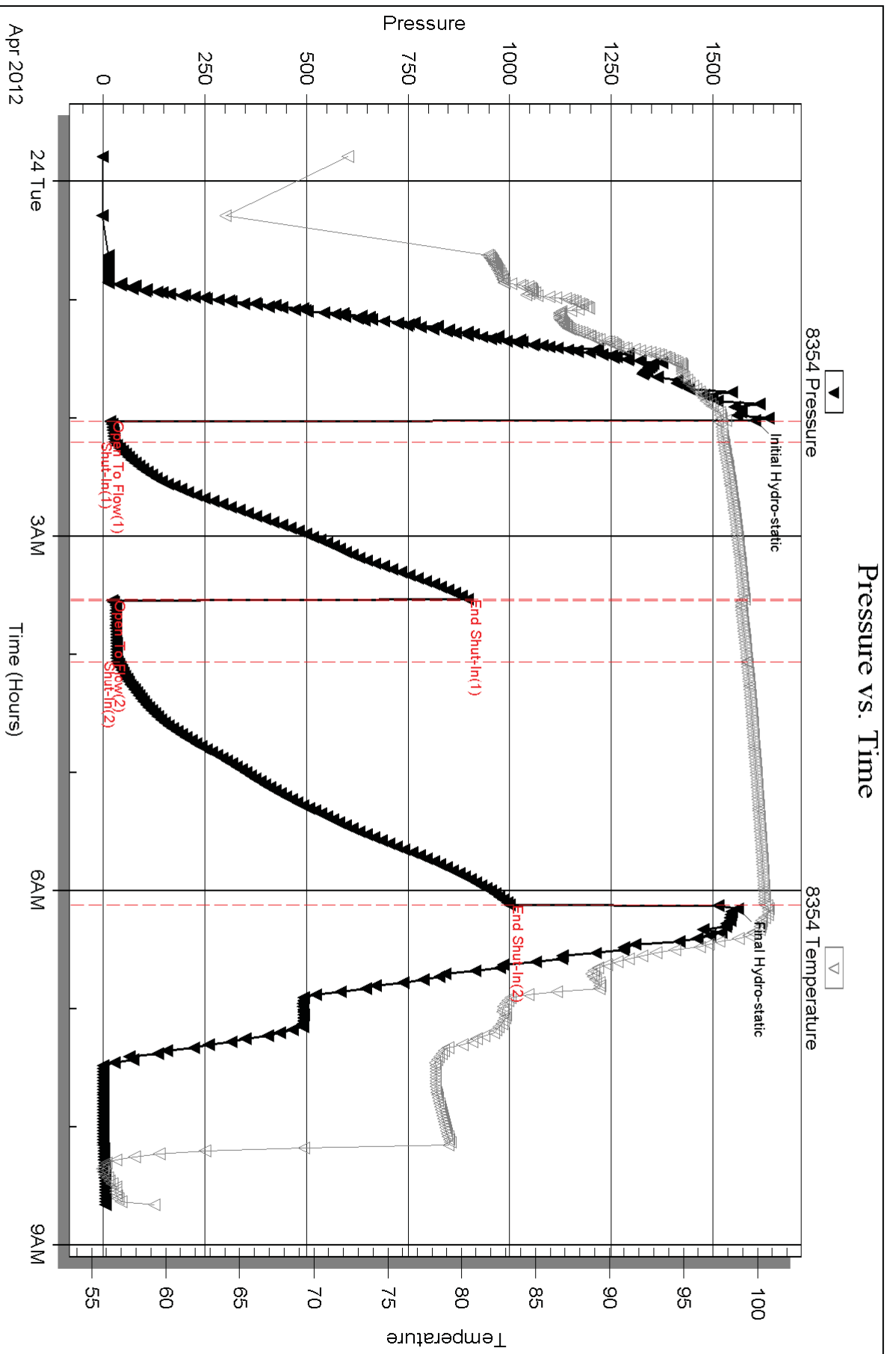
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-400mL Total. 1800mL Oil.
5.25 Cubic Feet Gas. 525# Pressure.
Oil Gravity- 38

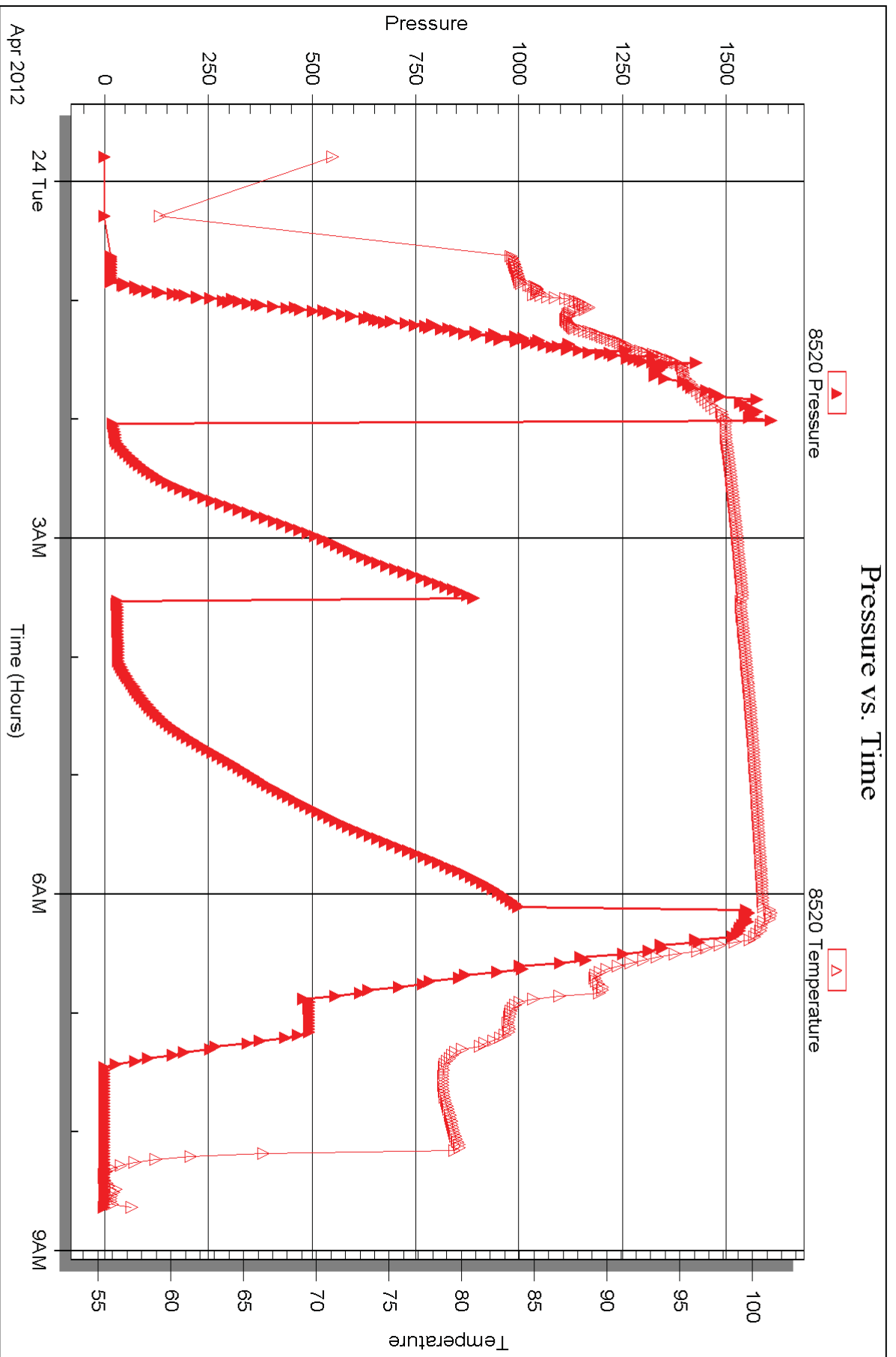


Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Sandra #1-25

DST Test Number: 1



Serial #: 8653

Fluid

Samuel Gary Jr. & Associates, Inc.

Sandra #1-25

DST Test Number: 1

