

DRILL STEM TEST REPORT

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

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Chris Mitchel

Wahl Trust #1-32

32-14s-15w Russell,KS

Start Date: 2012.09.25 @ 03:09:21

End Date: 2012.09.25 @ 11:21:21

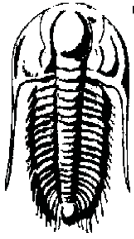
Job Ticket #: 47872 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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Printed: 2012.10.01 @ 14:36:00



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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Test Start: 2012.09.25 @ 03:09:21

GENERAL INFORMATION:

Formation: **Toronto-A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:03:06

Time Test Ended: 11:21:21

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3054.00 ft (KB) To 3119.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3119.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 336.11 psig @ 3091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.25

End Date:

2012.09.25

Last Calib.:

2012.09.25

Start Time: 03:09:23

End Time:

11:21:21

Time On Btm:

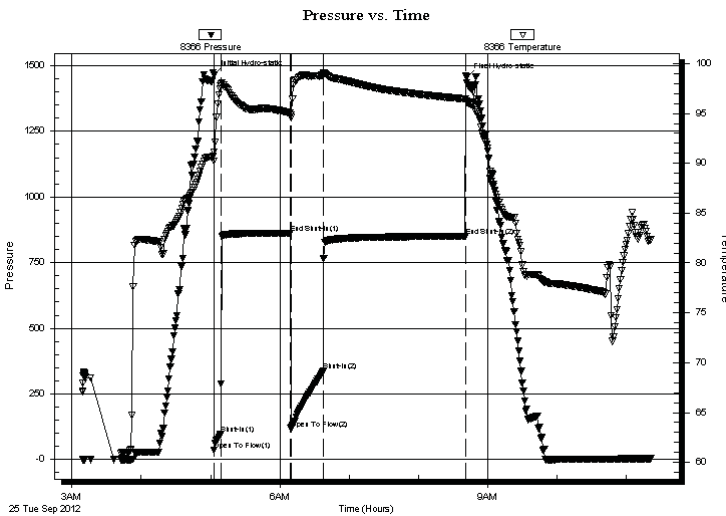
2012.09.25 @ 05:02:51

Time Off Btm:

2012.09.25 @ 08:41:36

TEST COMMENT: 5 Min. IFP- Strong, BOB in 4 Min.
60 Min. ISI-Surface Blow back for 5 Min
30 Min. FFP-Strong, BOB in 5 Min.
120 Min. FSI-Blow back Built to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1463.85	91.12	Initial Hydro-static
1	36.20	90.22	Open To Flow (1)
6	98.04	97.71	Shut-In(1)
67	862.50	95.06	End Shut-In(1)
67	117.83	94.61	Open To Flow (2)
95	336.11	98.84	Shut-In(2)
218	850.77	96.46	End Shut-In(2)
219	1455.78	96.29	Final Hydro-static

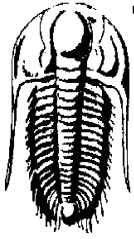
Recovery

Length (ft)	Description	Volume (bbl)
810.00	Muddy Water W/Oil Scum	11.09
0.00	210' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests



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TOOL DIAGRAM

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Wahl Trust #1-32

Job Ticket: 47872

DST#: 2

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 03:09:21

Tool Information

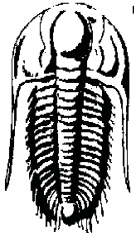
Drill Pipe:	Length: 3003.00 ft	Diameter: 3.80 inches	Volume: 42.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3054.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	100.00 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	8289	Fluid	3019.00	
Change Over Sub	5.00			3024.00	
Shut In Tool	5.00			3029.00	
Sampler	3.00			3032.00	
Hydraulic tool	5.00			3037.00	
Jars	5.00			3042.00	
Safety Joint	2.00			3044.00	
Packer	5.00			3049.00	35.00 Bottom Of Top Packer
Packer	5.00			3054.00	
Stubb	1.00			3055.00	
Perforations	3.00			3058.00	
Change Over Sub	1.00			3059.00	
Blank Spacing	31.00			3090.00	
Change Over Sub	1.00			3091.00	
Recorder	0.00	8366	Inside	3091.00	
Recorder	0.00	8789	Outside	3091.00	
Perforations	25.00			3116.00	
Bullnose	3.00			3119.00	65.00 Bottom Packers & Anchor

Total Tool Length: 100.00



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FLUID SUMMARY

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ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 03:09:21

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:

43000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
810.00	Muddy Water W/Oil Scum	11.089
0.00	210' Gas In Pipe	0.000

Total Length: 810.00 ft Total Volume: 11.089 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-150#, 4000ml Salt Water

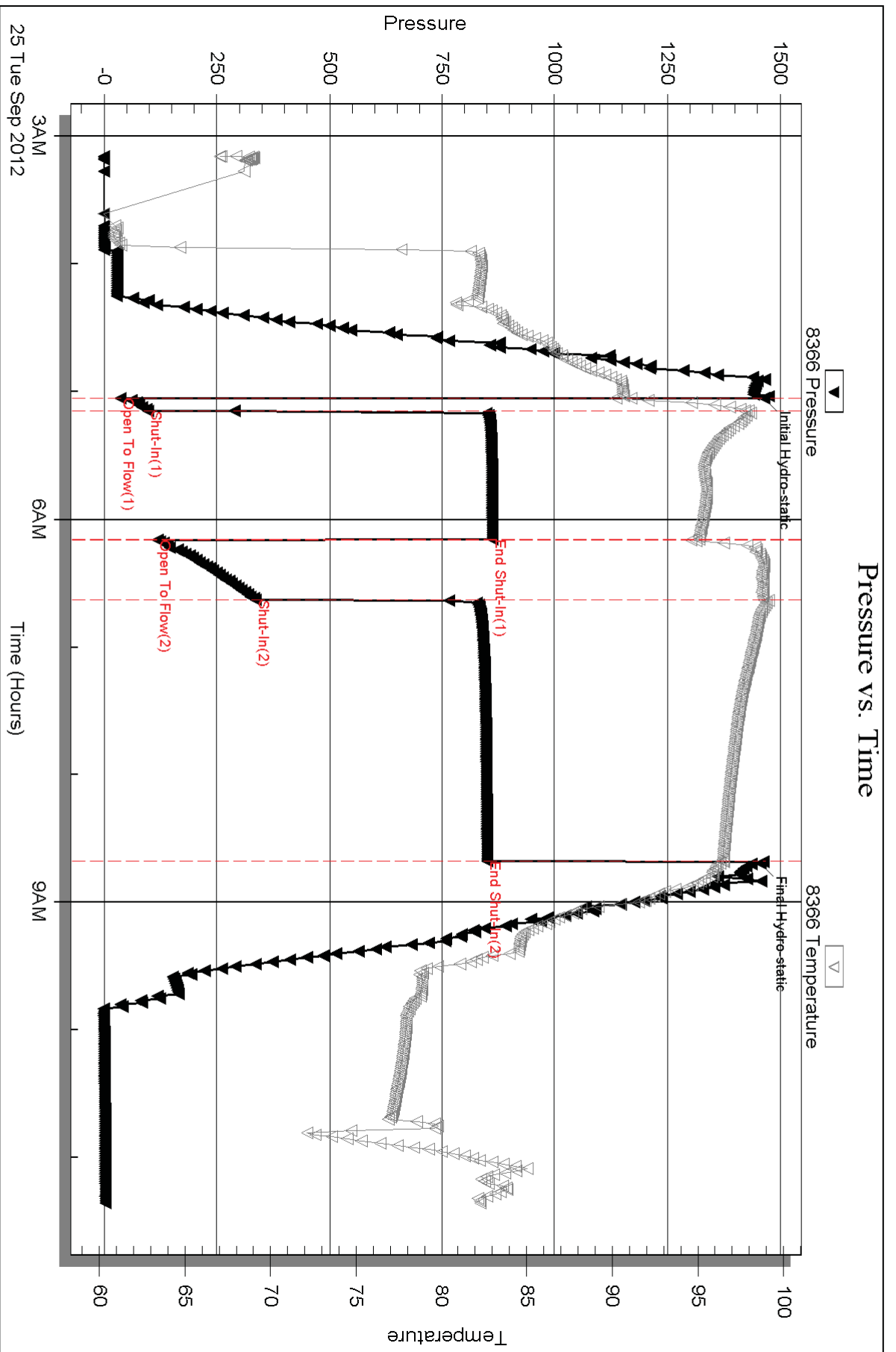
Serial #: 8366

Inside

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 2

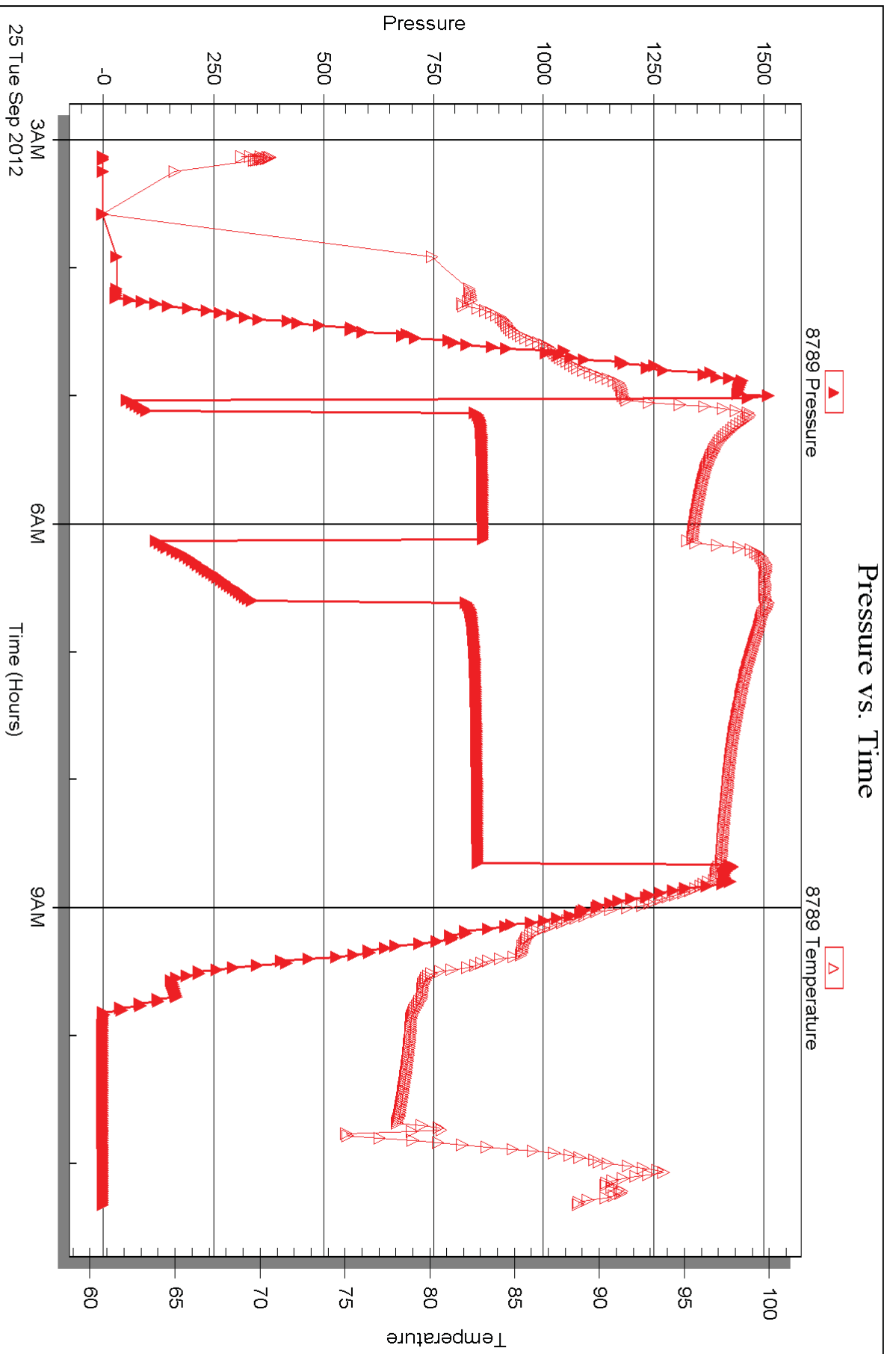


Serial #: 8789

Outside Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 2



Serial #: 8289

Fluid

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 2

