



## DRILL STEM TEST REPORT

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

1515 Wynkoop Ste 700  
Denver CO 80202

ATTN: Christopher Mitchell

**VP #1-30**

**30-14s-17w Ellis,KS**

Start Date: 2013.04.09 @ 01:49:46

End Date: 2013.04.09 @ 11:21:01

Job Ticket #: 50949                      DST #: 1

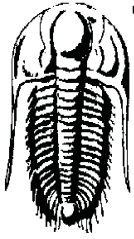
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 13:24:25

Samuel Gary Jr & Associates Inc  
30-14s-17w Ellis,KS  
VP #1-30  
DST # 1  
Lansing C-D  
2013.04.09



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TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

**30-14s-17w Ellis,KS**

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**VP #1-30**

Job Ticket: 50949

**DST#: 1**

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

## GENERAL INFORMATION:

Formation: **Lansing C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:31

Time Test Ended: 11:21:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

**Interval: 3235.00 ft (KB) To 3285.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3285.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6755 Inside**

Press@RunDepth: 72.98 psig @ 3236.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.09

End Date: 2013.04.09

Last Calib.: 2013.04.09

Start Time: 01:49:51

End Time: 11:21:01

Time On Btm: 2013.04.09 @ 05:05:16

Time Off Btm: 2013.04.09 @ 08:46:16

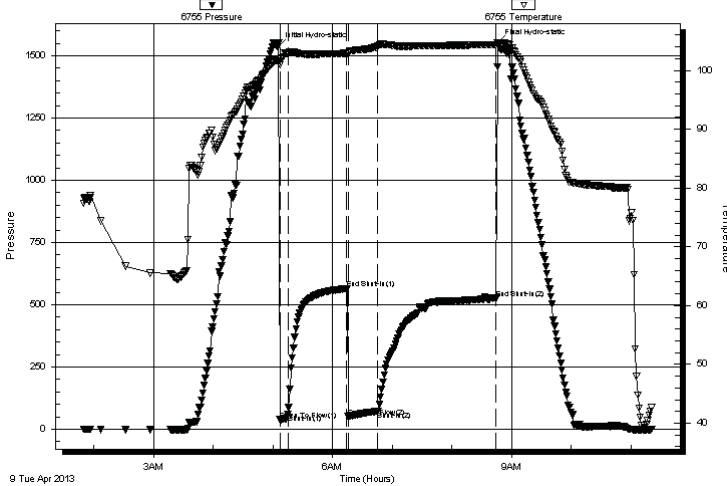
TEST COMMENT: IF: Weak blow 3 1/2"

ISI: No blow back

FF: Fair blow 5"

FSI No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.90	101.63	Initial Hydro-static
3	35.87	101.65	Open To Flow (1)
10	60.85	102.90	Shut-In(1)
69	563.87	102.92	End Shut-In(1)
71	50.38	102.93	Open To Flow (2)
101	72.98	104.10	Shut-In(2)
220	526.40	104.39	End Shut-In(2)
221	1550.84	104.72	Final Hydro-static

## Recovery

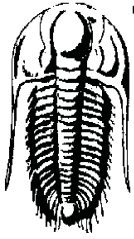
Length (ft)	Description	Volume (bbl)
80.00	O,W,M 1%oil 39%w ater 60%mud	1.12

## Gas Rates

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







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**TOOL DIAGRAM**

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ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

## Tool Information

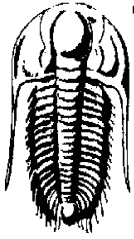
Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.17 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3235.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	86.00 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	8676	Fluid	3199.00	
Stubb	4.00			3203.00	
Change Over Sub	1.00			3204.00	
Shut In Tool	5.00			3209.00	
Sampler	3.00			3212.00	
Hydraulic tool	5.00			3217.00	
Jars	5.00			3222.00	
Safety Joint	3.00			3225.00	
Packer	5.00			3230.00	36.00 Bottom Of Top Packer
Packer	5.00			3235.00	
Stubb	1.00			3236.00	
Recorder	0.00	6773	Outside	3236.00	
Recorder	0.00	6755	Inside	3236.00	
Change Over Sub	0.50			3236.50	
Drill Pipe	31.00			3267.50	
Change Over Sub	0.50			3268.00	
Perforations	14.00			3282.00	
Bullnose	3.00			3285.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



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## FLUID SUMMARY

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Job Ticket: 50949

**DST#: 1**

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

### 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:

65000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	O,W,M 1%oil 39%w ater 60%mud	1.122

Total Length: 80.00 ft      Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

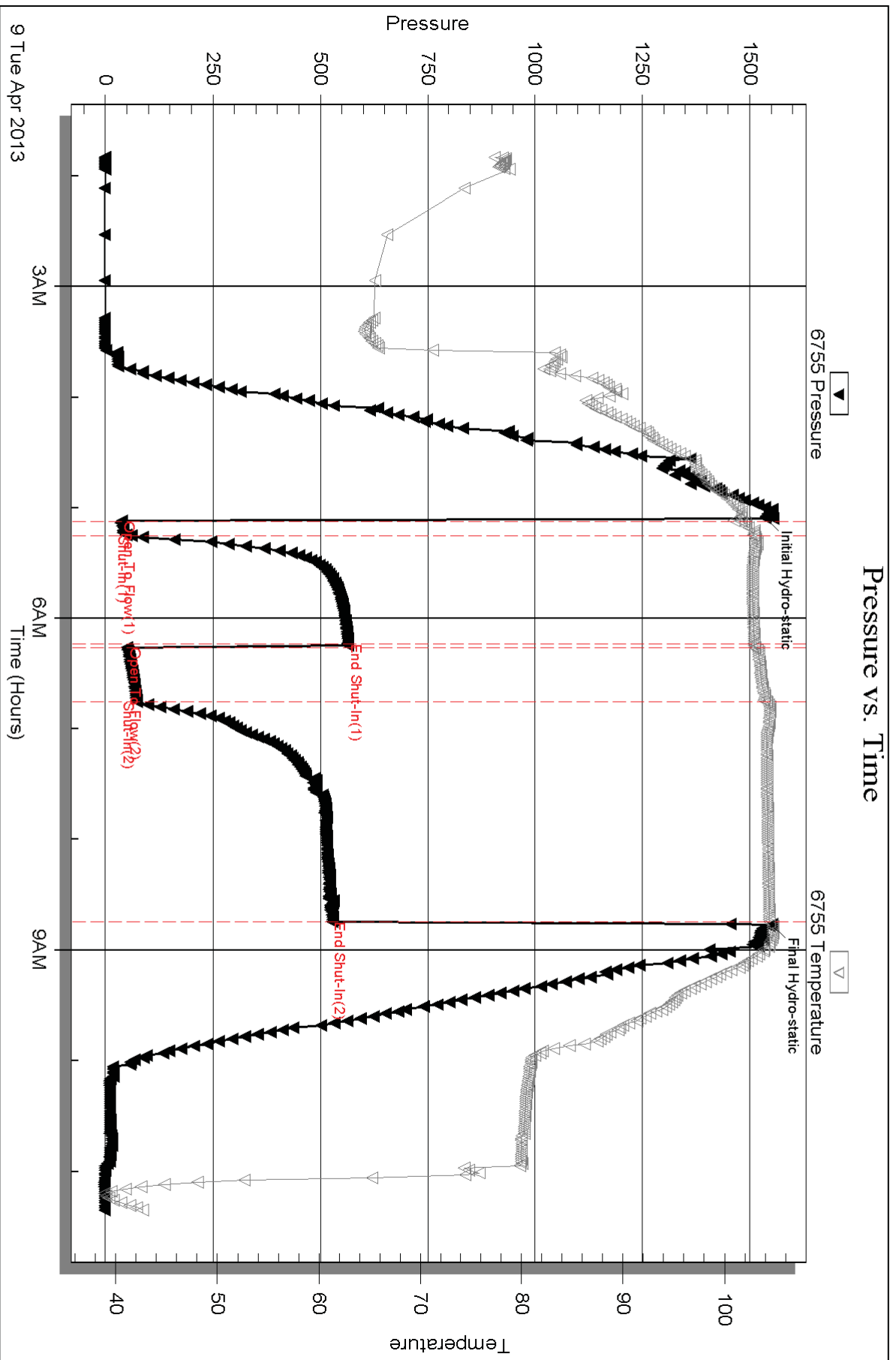
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 200# pressure

200 Milleters fluid 40% w ater 60% mud

### Pressure vs. Time



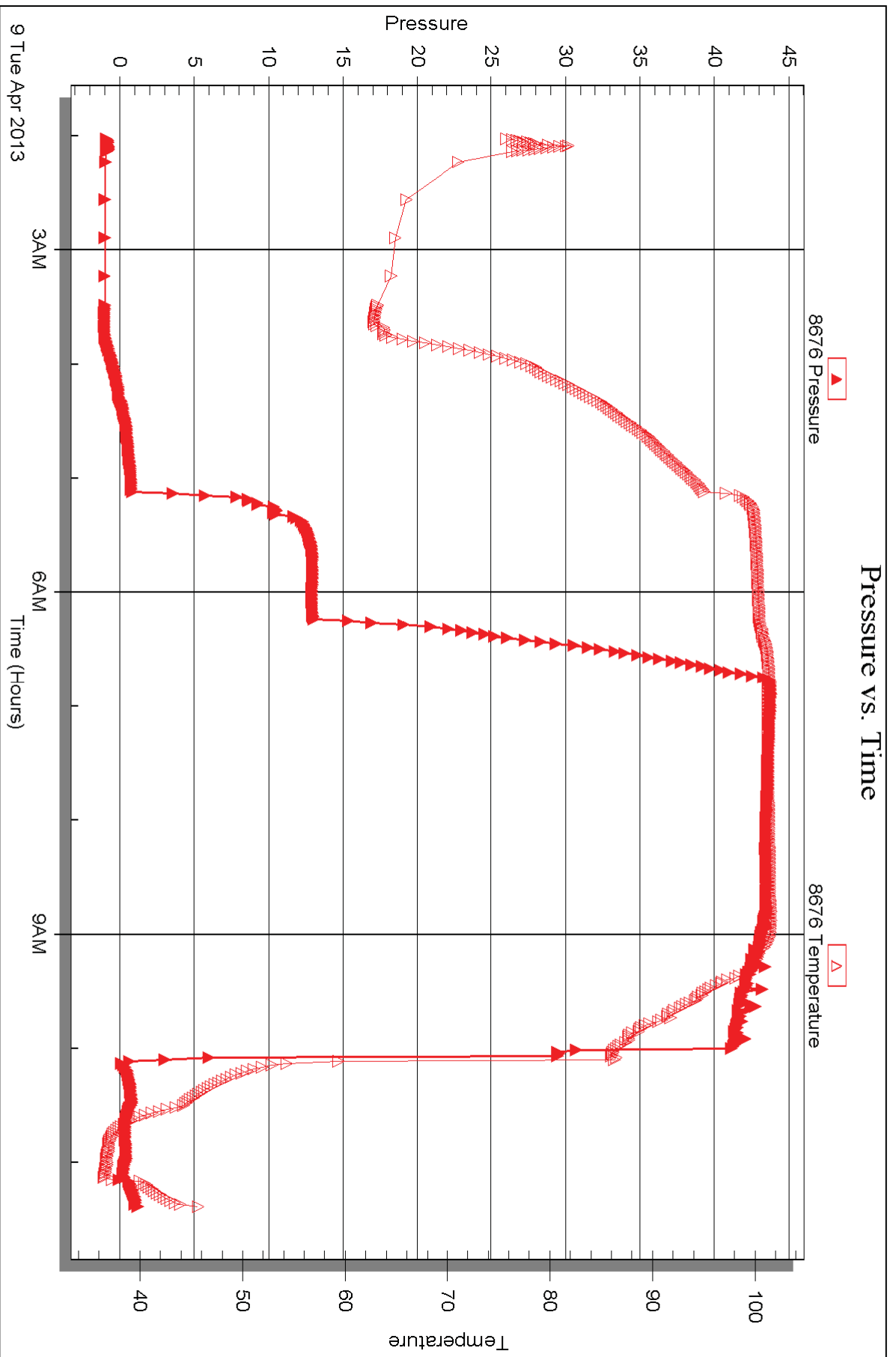
Serial #: 8676

Fluid

Samuel Gary Jr & Associates Inc

VP#1-30

DST Test Number: 1





Serial #: 6773

Outside

Samuel Gary Jr & Associates Inc

VP#1-30

DST Test Number: 1

