



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

**9/5s/22w Norton KS**

1515 Wynkoop St. STE 700  
Denver, CO 80202

**Jacobs Trust #1-9**

Job Ticket: 60779

**DST#: 1**

ATTN: Dan Pritchard

Test Start: 2014.11.06 @ 22:51:00

## GENERAL INFORMATION:

Formation: **Platismouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:41:15

Time Test Ended: 06:09:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

**Interval: 3238.00 ft (KB) To 3293.00 ft (KB) (TVD)**

Reference Elevations: 2179.00 ft (KB)

Total Depth: 3293.00 ft (KB) (TVD)

2171.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8791 Inside**

Press @ Run Depth: 137.68 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.06

End Date:

2014.11.07

Last Calib.:

2014.11.07

Start Time: 22:51:05

End Time:

06:09:29

Time On Btm:

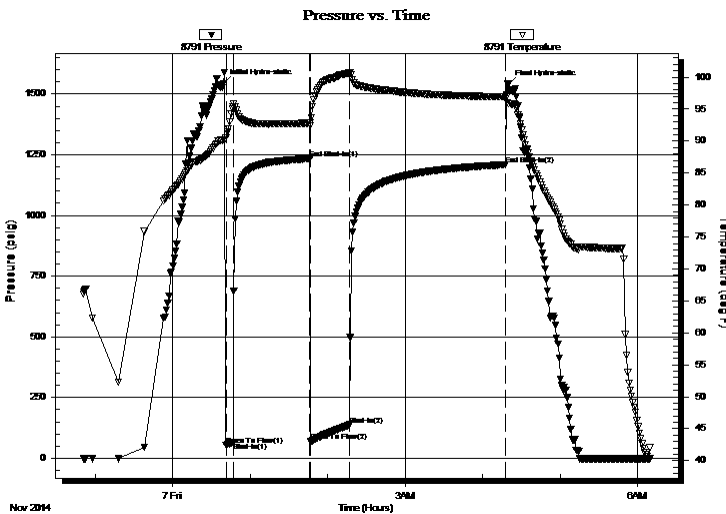
2014.11.07 @ 00:39:15

Time Off Btm:

2014.11.07 @ 04:19:30

**TEST COMMENT:** 5 - IF: 6" surge blow at open, built to 8 3/4"  
60 - IS: No blow back  
30 - FF: Blow built to 9 1/4"  
120 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.58	90.17	Initial Hydro-static
2	52.98	90.53	Open To Flow (1)
8	65.94	95.42	Shut-In(1)
67	1233.70	92.85	End Shut-In(1)
68	69.94	92.38	Open To Flow (2)
98	137.68	100.66	Shut-In(2)
219	1209.01	96.94	End Shut-In(2)
221	1538.48	95.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
194.00	MCW 90%w, 10%m	2.44
62.00	SWCM 96%m, 4%w	0.87
4.00	Mud 100%	0.06

## Gas Rates

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



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Test Start: 2014.11.06 @ 22:51:00

## GENERAL INFORMATION:

Formation: **Platismouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:41:15

Time Test Ended: 06:09:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: **3238.00 ft (KB) To 3293.00 ft (KB) (TVD)**

Reference Elevations: 2179.00 ft (KB)

Total Depth: 3293.00 ft (KB) (TVD)

2171.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8320** Outside

Press @ Run Depth: psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.06

End Date: 2014.11.07

Last Calib.: 2014.11.07

Start Time: 22:51:05

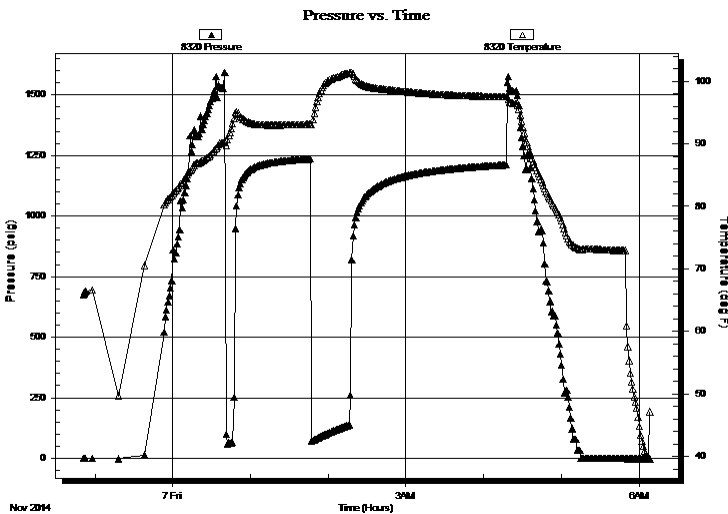
End Time: 06:08:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: 6" surge blow at open, built to 8 3/4"  
60 - IS: No blow back  
30 - FF: Blow built to 9 1/4"  
120 - FS: No blow back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
194.00	MCW 90%w, 10%m	2.44
62.00	SWCM 96%m, 4%w	0.87
4.00	Mud 100%	0.06

## Gas Rates

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





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**FLUID SUMMARY**

Samuel Gary Jr. & Associates

**9/5s/22w Norton KS**

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**Jacobs Trust #1-9**

Job Ticket: 60779

**DST#: 1**

ATTN: Dan Pritchard

Test Start: 2014.11.06 @ 22:51:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	50000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
194.00	MCW 90%w , 10%m	2.439
62.00	SWCM 96%m, 4%w	0.870
4.00	Mud 100%	0.056

Total Length: 260.00 ft      Total Volume: 3.365 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

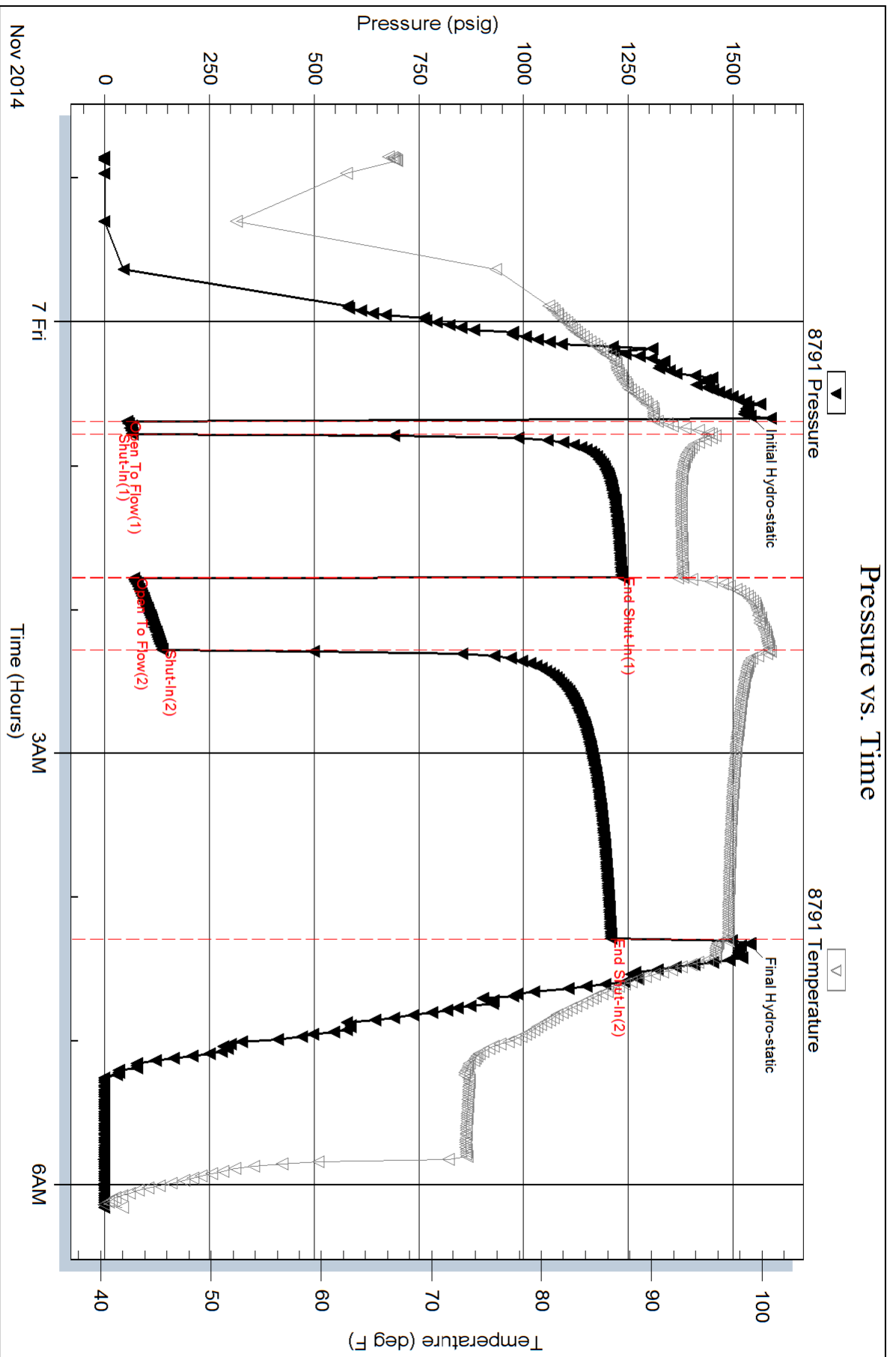
Serial #:

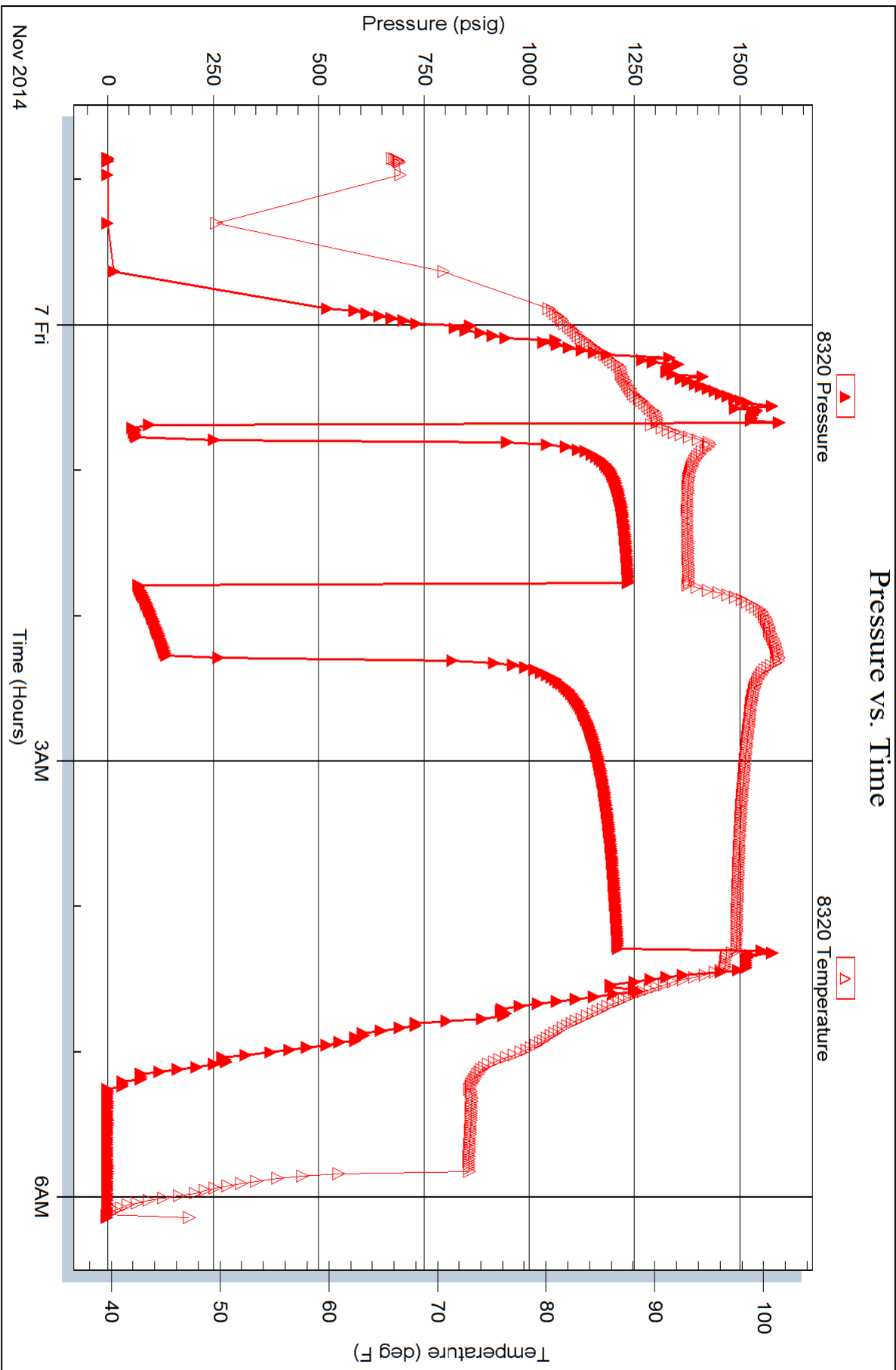
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .243 ohms @ 48 deg F Chlorides = 46,000 ppm

Sampler = 480 PSI, 2400 mL SMCW 98%w , 2%m, RW = .211 ohms @ 49.4 deg F Chlorides = 50,000 ppm





Serial #: 8366

Fluid

Samuel Gary Jr. & Associates

Jacobs Trust#1-9

DST Test Number: 1

