



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

34/4S/23W-Norton

1515 Wynkoop Ste. 700
Denver, CO 80202

Hager Trust 1-35

Job Ticket: 52123

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.05.05 @ 00:09:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:19:00

Time Test Ended: 08:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

Interval: 3724.00 ft (KB) To 3752.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 3752.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 218.00 psig @ 3728.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.05

End Date:

2013.05.05

Last Calib.:

2013.05.05

Start Time:

00:19:30

End Time:

08:49:30

Time On Btm:

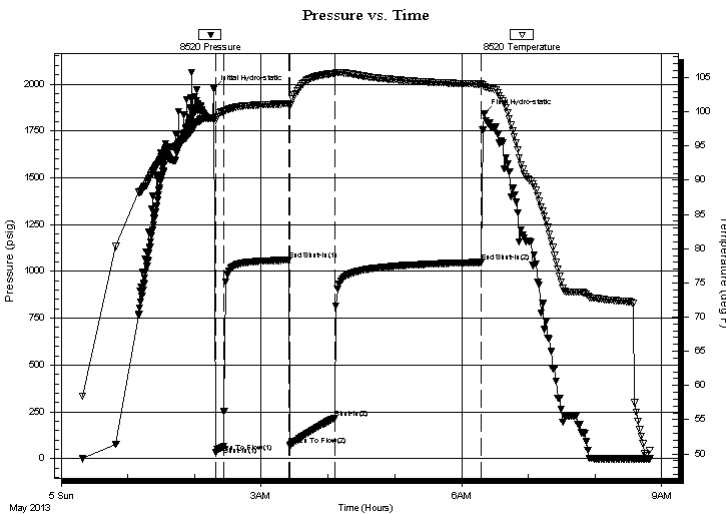
2013.05.05 @ 02:17:30

Time Off Btm:

2013.05.05 @ 06:20:30

TEST COMMENT: IF-Fair building blow . Built to 8 inches.
ISI-No Return.
FF-Fair building blow . BOB @ 11 minutes.
FSI-No Return. Times-5-60-40-120

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.13	99.10	Initial Hydro-static
2	31.64	98.76	Open To Flow (1)
9	64.51	99.96	Shut-In(1)
68	1060.61	101.16	End Shut-In(1)
69	73.11	100.99	Open To Flow (2)
109	218.00	105.60	Shut-In(2)
240	1048.20	104.03	End Shut-In(2)
243	1841.31	103.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
251.00	95%Water/5%Mud	3.25
126.00	75%Water/25%Mud	1.77
63.00	60%Water/40%Mud	0.88

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

34/4S/23W-Norton

1515 Wynkoop Ste. 700
Denver, CO 80202

Hager Trust 1-35

Job Ticket: 52123

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.05.05 @ 00:09:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:19:00

Time Test Ended: 08:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

Interval: 3724.00 ft (KB) To 3752.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 3752.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653 Fluid

Press @ RunDepth: psig @ 3694.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.05

End Date:

2013.05.05

Last Calib.:

2013.05.05

Start Time: 00:09:46

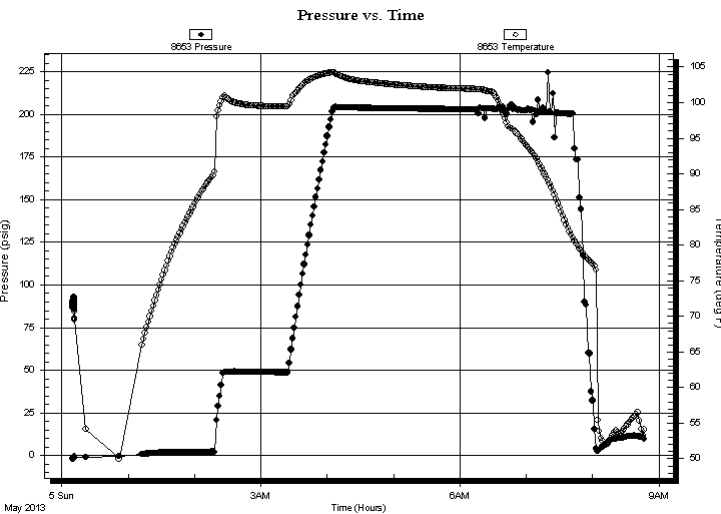
End Time:

08:47:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Fair building blow . Built to 8 inches.
ISI-No Return.
FF-Fair building blow . BOB @ 11 minutes.
FSI-No Return. Times-5-60-40-120



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
251.00	95%Water/5%Mud	3.25
126.00	75%Water/25%Mud	1.77
63.00	60%Water/40%Mud	0.88

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

34/4S/23W-Norton

1515 Wynkoop Ste. 700
Denver, CO 80202

Hager Trust 1-35

Job Ticket: 52123

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.05.05 @ 00:09:30

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:	18200 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: 0.62 ohm.m	Gas Cushion Pressure: psig		
Salinity: 400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
251.00	95%Water/5%Mud	3.248
126.00	75%Water/25%Mud	1.767
63.00	60%Water/40%Mud	0.884

Total Length: 440.00 ft Total Volume: 5.899 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-2000ML Total. 175# Pressure. 1900 ML Water. 100 ML Mud.
Resistivity- .658 @ 41= 17000

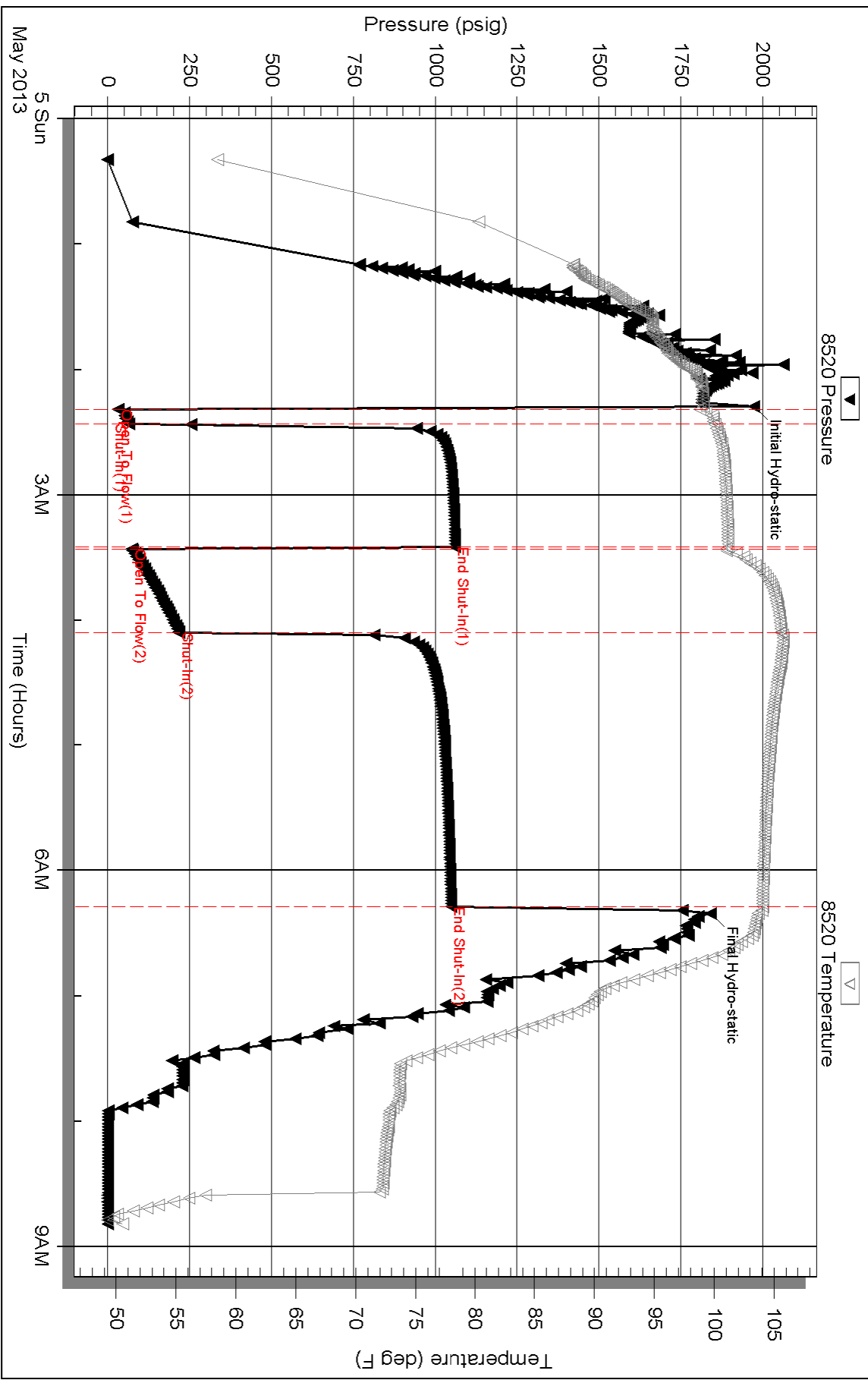
Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Hager Trust 1-35

DST Test Number: 1

Pressure vs. Time



Serial #: 8653

Fluid

Samuel Gary Jr. & Associates, Inc.

Hager Trust 1-35

DST Test Number: 1

