



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

16/12S/16W-Ellis

1515 Wynkoop Ste. #700
Denver, CO 80202

Glassman #3-16

Job Ticket: 49484

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.08.21 @ 12:20:30

GENERAL INFORMATION:

Formation: **Toronto- LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:04:40

Time Test Ended: 19:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3140.00 ft (KB) To 3203.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3203.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 46.86 psig @ 3144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21

End Date: 2012.08.21

Last Calib.: 2012.08.21

Start Time: 12:30:30

End Time: 19:01:00

Time On Btm: 2012.08.21 @ 14:04:30

Time Off Btm: 2012.08.21 @ 17:21:00

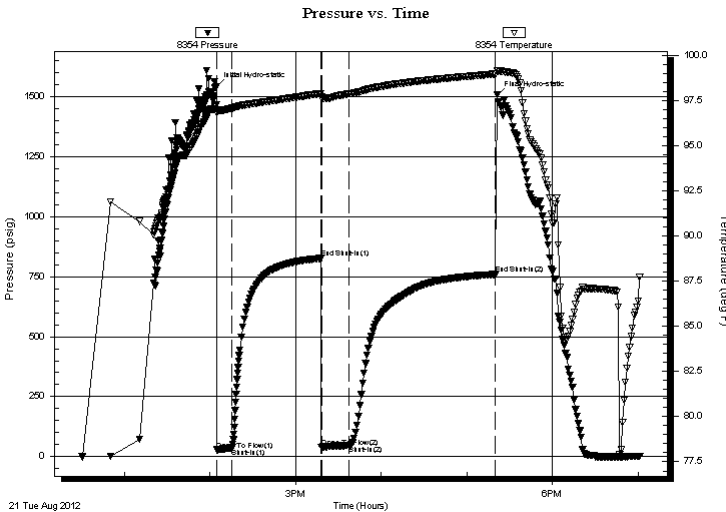
TEST COMMENT: IF-Weak surface blow . Built to 1/2 inch.

ISI-No Return.

FF-Weak surface blow @ 6 minuts.

FSI-No Return. Flow Times- 10-60-20-100

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.15	97.27	Initial Hydro-static
1	27.95	96.80	Open To Flow (1)
11	36.69	97.08	Shut-In(1)
73	826.41	97.89	End Shut-In(1)
74	40.52	97.69	Open To Flow (2)
93	46.86	97.87	Shut-In(2)
196	759.73	98.98	End Shut-In(2)
197	1506.21	99.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	100%Mud	0.22

Gas Rates

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



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Reference Elevations: 1974.00 ft (KB)

Total Depth: 3203.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Fluid

Press @ Run Depth: psig @ 3110.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21

End Date: 2012.08.21

Last Calib.: 2012.08.21

Start Time: 12:20:51

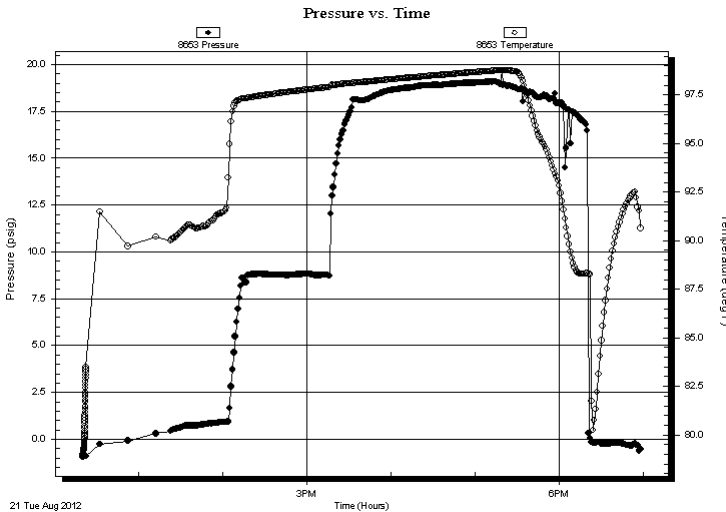
End Time: 18:58:50

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak surface blow . Built to 1/2 inch.
 IS-No Return.
 FF-Weak surface blow @ 6 minuts.
 FS-No Return. Flow Times- 10-60-20-100

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	100%Mud	0.22

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

16/12S/16W-Ellis

1515 Wynkoop Ste. #700
Denver, CO 80202

Glassman #3-16

Job Ticket: 49484

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.08.21 @ 12:20:30

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:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	100%Mud	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

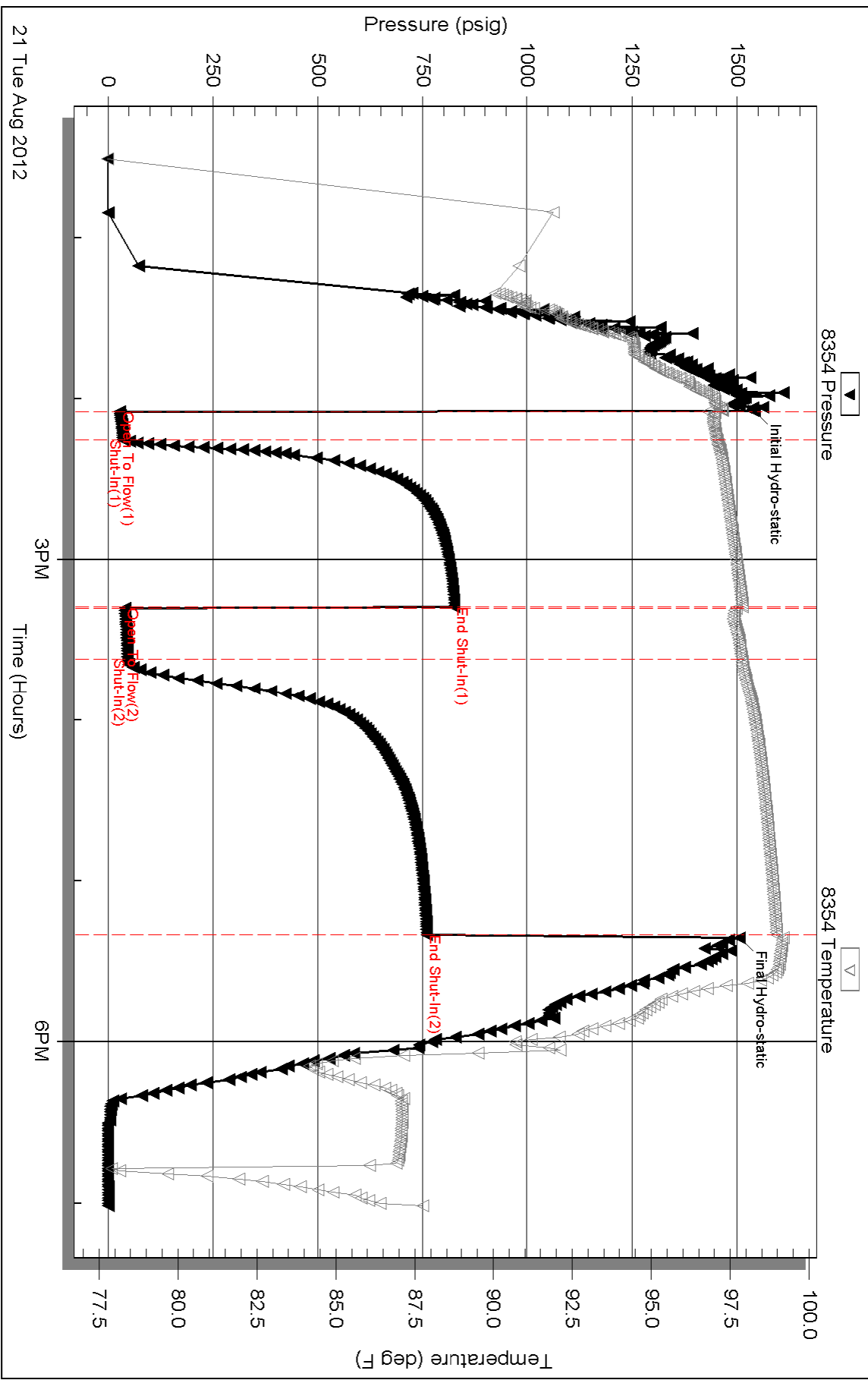
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 2000 ML 100%Mud
Pressure- 150#

Pressure vs. Time



Serial #: 8653

Fluid

Samuel Gary Jr. & Associates, Inc.

Glassman #3-16

DST Test Number: 1

