



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

21-12-16 Ellis, KS

1515 Wynkoop, Ste 700
Denver, CO 80202

Donald 1-21

Job Ticket: 50823

DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.08.09 @ 13:39:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Test Type: (Reset)

Time Tool Opened: 15:04:30

Tester: Brannan L

Time Test Ended: 19:07:00

Unit No: 67

Interval: 3278.00 ft (KB) To 3358.00 ft (KB) (TVD)

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3358.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8679

Fluid

Press @ Run Depth: 40.44 psig @ 3243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.09

End Date:

2013.08.09

Last Calib.:

2013.08.09

Start Time: 13:39:01

End Time:

19:07:00

Time On Btm:

2013.08.09 @ 15:02:30

Time Off Btm:

2013.08.09 @ 17:31:00

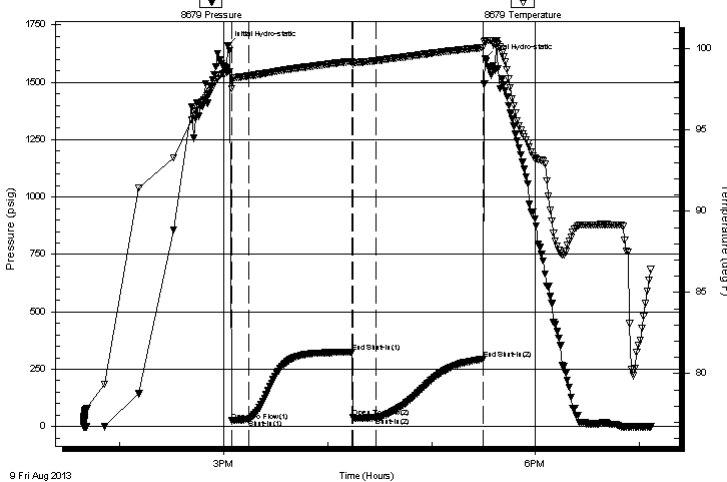
TEST COMMENT: 10- IF- .75"

60- IS- No blow

15- FF- No blow

60- FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.22	98.59	Initial Hydro-static
2	25.42	97.54	Open To Flow (1)
12	31.21	98.34	Shut-In(1)
72	325.33	99.24	End Shut-In(1)
72	39.47	99.06	Open To Flow (2)
86	40.44	99.28	Shut-In(2)
147	294.11	100.07	End Shut-In(2)
149	1601.79	100.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M, 100%M	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

21-12-16 Ellis, KS

1515 Wynkoop, Ste 700
Denver, CO 80202

Donald 1-21

Job Ticket: 50823

DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.08.09 @ 13:39:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M, 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mLM@150PSI

Serial #: 8679

Fluid

Samuel Gary Jr. & Associates, Inc.

Donald 1-21

DST Test Number: 2

