



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54831

DST#: 2

ATTN: Dan Prichard

Test Start: 2013.09.29 @ 00:18:56

GENERAL INFORMATION:

Formation: **Lansing I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:16

Time Test Ended: 08:17:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3316.00 ft (KB) To 3368.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8898 Outside

Press @ Run Depth: 38.08 psig @ 3333.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.29 End Date: 2013.09.29

Last Calib.: 2013.09.29

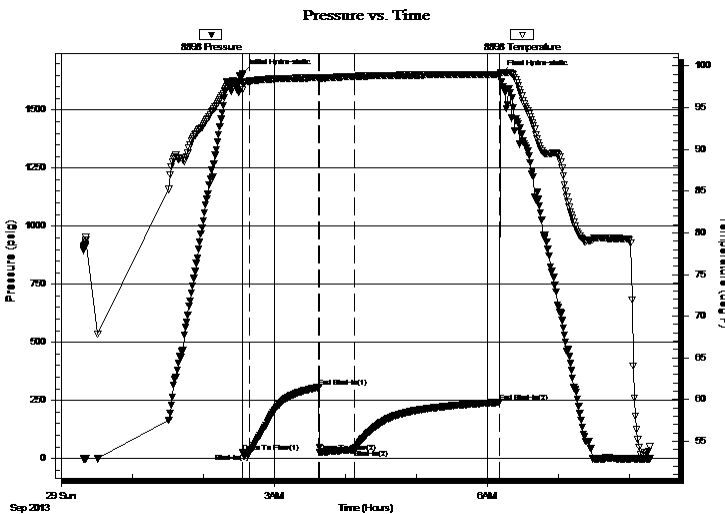
Start Time: 00:18:57 End Time: 08:17:36

Time On Btm: 2013.09.29 @ 02:33:06

Time Off Btm: 2013.09.29 @ 06:11:05

TEST COMMENT: Strong surface blow built to 9 in.
Dead no blow back
B.O.B. in 7 min
Dead no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.52	98.14	Initial Hydro-static
1	25.53	97.09	Open To Flow (1)
6	22.60	98.18	Shut-In(1)
65	306.31	98.60	End Shut-In(1)
66	26.48	98.55	Open To Flow (2)
95	38.08	98.75	Shut-In(2)
217	241.82	98.98	End Shut-In(2)
218	1653.54	99.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	10%G 50%O 10%W 30%M	0.91
0.00	240 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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Job Ticket: 54831

DST#: 2

ATTN: Dan Prichard

Test Start: 2013.09.29 @ 00:18:56

GENERAL INFORMATION:

Formation: **Lansing I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:16

Time Test Ended: 08:17:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3316.00 ft (KB) To 3368.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8736

Press @ Run Depth: psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.29

End Date:

2013.09.29

Last Calib.:

2013.09.29

Start Time: 00:18:51

End Time:

08:16:00

Time On Btm:

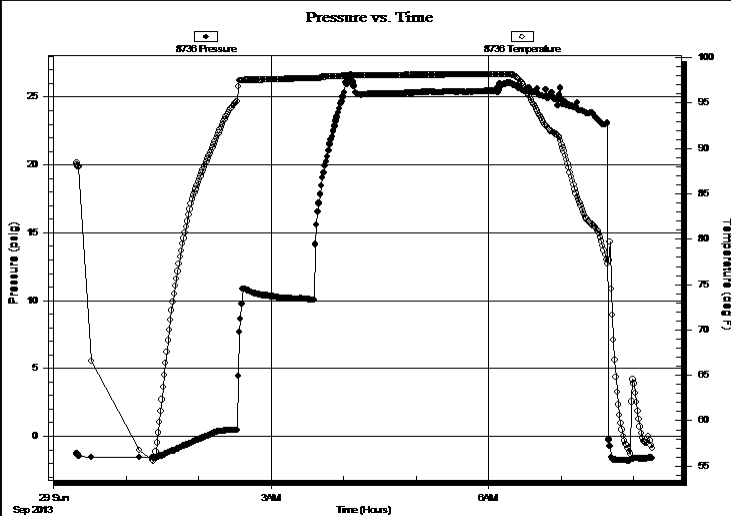
Time Off Btm:

TEST COMMENT: Strong surface blow built to 9 in.

Dead no blow back

B.O.B. in 7 min

Dead no blow



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
65.00	10%G 50%O 10%W 30%M	0.91
0.00	240 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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TESTING, INC.**

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FLUID SUMMARY

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54831

DST#: 2

ATTN: Dan Prichard

Test Start: 2013.09.29 @ 00:18:56

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	10%G 50%O 10%W 30%M	0.912
0.00	240 GIP	0.000

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

