



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

26 4s 23w Norton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Sproul Knappe 1-26

Job Ticket: 53818

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.06.16 @ 12:45:00

GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: 2333.00 ft (KB)

Time Tool Opened: 15:06:13

Time Test Ended: 20:46:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3697.00 ft (KB) To 3742.00 ft (KB) (TVD)

Total Depth: 3868.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2333.00 ft (KB)

2325.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ RunDepth: 21.52 psig @ 3702.00 ft (KB)

Start Date: 2013.06.16

End Date:

2013.06.16

Start Time: 12:45:01

End Time:

20:45:43

Capacity: 8000.00 psig

Last Calib.: 2013.06.16

Time On Btm: 2013.06.16 @ 15:06:03

Time Off Btm: 2013.06.16 @ 18:09:23

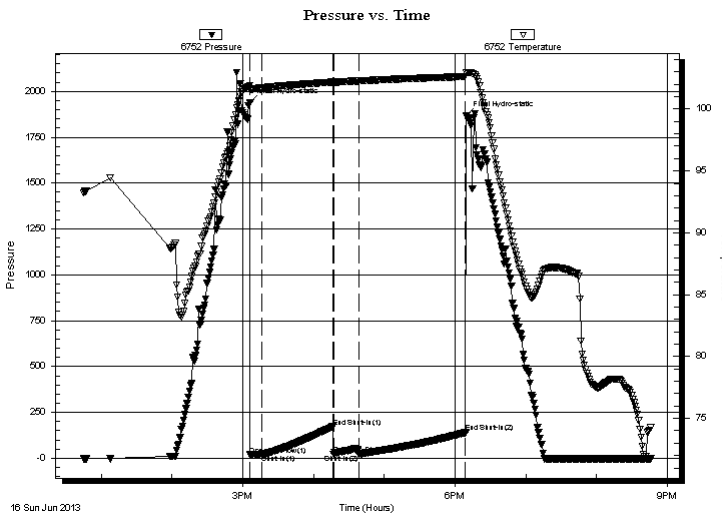
TEST COMMENT: 10-IFP-Surging Surface Blow in 5 min.

60-ISIP- No Blow

20-FFP- No Blow

90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.74	101.90	Initial Hydro-static
1	19.50	101.55	Open To Flow (1)
10	20.03	101.71	Shut-In(1)
71	171.76	102.18	End Shut-In(1)
71	22.01	102.15	Open To Flow (2)
93	21.52	102.27	Shut-In(2)
183	140.78	102.63	End Shut-In(2)
184	1868.50	102.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

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

* Recovery from multiple tests



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Total Depth: 3868.00 ft (KB) (TVD)

2325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8734 Below (Straddle)

Press @ Run Depth: psig @ 3744.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.16

End Date:

2013.06.16

Last Calib.:

2013.06.16

Start Time: 12:45:01

End Time:

20:45:50

Time On Btm:

Time Off Btm:

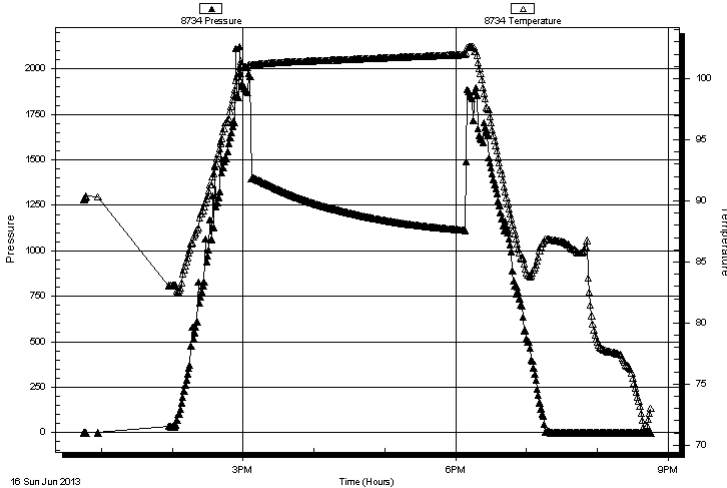
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Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

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

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FLUID SUMMARY

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Sproul Knappe 1-26

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DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.06.16 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER 200ml Mud 100% 40 psi

