



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates Inc.

30-14-16, Ellis, KS

1515 Wynkoop, Ste 700
Denver CO 80202

Brungardt #1-30

Job Ticket: 50265

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.01.26 @ 07:50:00

GENERAL INFORMATION:

Formation: **KC "I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:51:00

Time Test Ended: 14:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3370.00 ft (KB) To 3395.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753

Inside

Press @ RunDepth: 17.41 psig @ 3371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.26

End Date: 2013.01.26

Last Calib.: 2013.01.26

Start Time: 07:50:05

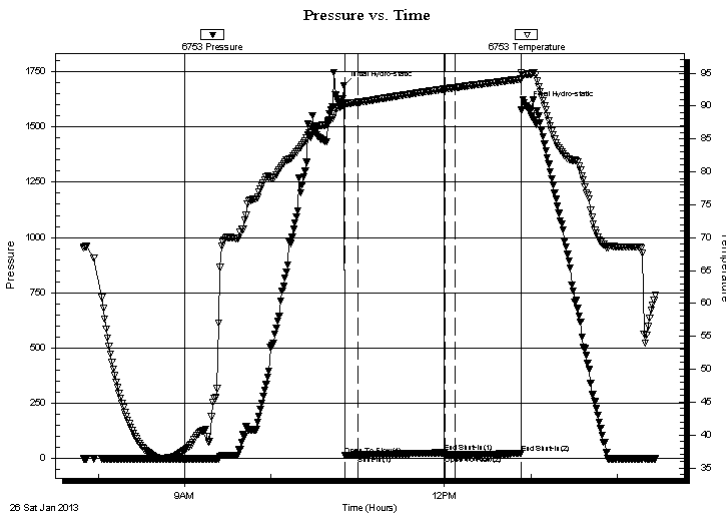
End Time: 14:26:59

Time On Btm: 2013.01.26 @ 10:50:30

Time Off Btm: 2013.01.26 @ 12:56:30

TEST COMMENT: 10min IF-1/4in blow
60min ISI-No blow
8min FF-No blow
45min FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.96	90.39	Initial Hydro-static
1	16.31	90.11	Open To Flow (1)
10	16.95	90.56	Shut-In(1)
70	26.72	92.57	End Shut-In(1)
70	16.92	92.58	Open To Flow (2)
77	17.41	92.80	Shut-In(2)
123	24.00	94.08	End Shut-In(2)
126	1594.81	94.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data Empty

