



**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: 50264

DST#: 1

ATTN: Clayton

Test Start: 2013.01.25 @ 15:35:00

GENERAL INFORMATION:

Formation: **KC "D-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:15:30

Time Test Ended: 22:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3240.00 ft (KB) To 3310.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3310.00 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 @ Run Depth: 38.42 psig @ 3241.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.25 End Date: 2013.01.25

Last Calib.: 2013.01.25

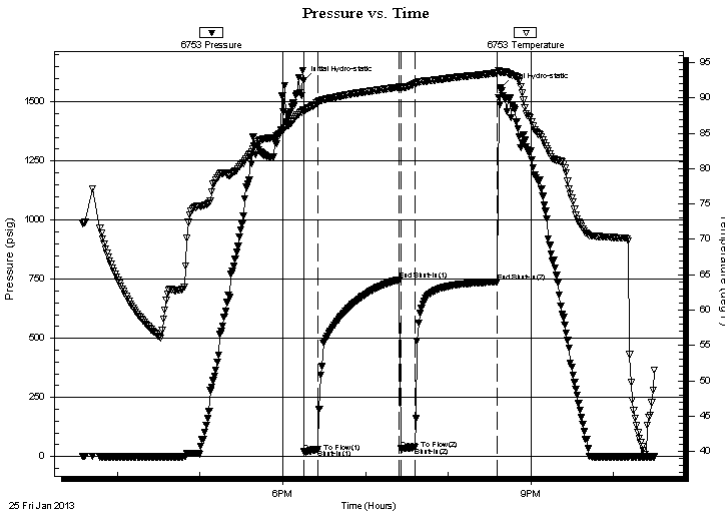
Start Time: 15:35:05 End Time: 22:29:59

Time On Btm: 2013.01.25 @ 18:15:00

Time Off Btm: 2013.01.25 @ 20:38:00

TEST COMMENT: 10min IF-1.25in blow
60min ISI-No blow
10min FF-.25in blow
60min FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.94	88.37	Initial Hydro-static
1	20.00	88.12	Open To Flow (1)
11	30.44	89.41	Shut-In(1)
70	745.76	91.55	End Shut-In(1)
71	33.31	91.38	Open To Flow (2)
81	38.42	92.02	Shut-In(2)
141	739.46	93.55	End Shut-In(2)
143	1559.10	93.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07

Gas Rates

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



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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
15.00	mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 200 psi 3000ml mud

