



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

GRAND MESA OPERATING

**DBY # 2-16**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

**16-16S-33W SCOTT**

ATTN: KENT MATSON

Job Ticket: 43695

**DST#: 1**

Test Start: 2011.09.12 @ 08:45:37

## GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:22

Time Test Ended: 15:55:52

Test Type: Conventional Bottom Hole

Tester: RANDY WILLIAMS

Unit No: 36

**Interval: 4012.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Reference Elevations: 3048.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

3037.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 134.38 psig @ 4013.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.12

End Date:

2011.09.12

Last Calib.:

2011.09.12

Start Time: 08:45:42

End Time:

15:55:51

Time On Btm:

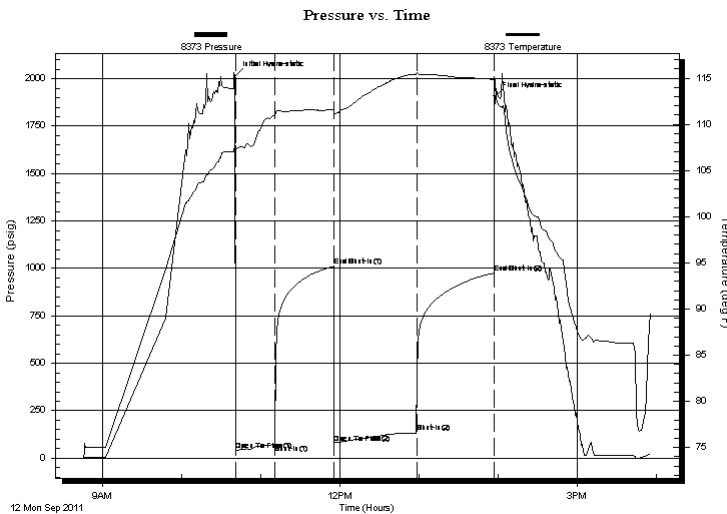
2011.09.12 @ 10:40:52

Time Off Btm:

2011.09.12 @ 13:57:22

**TEST COMMENT:** IF-SBB, BUILT TO 3.5 INCH IN 30 MIN'S  
IS- NBB  
FF- SBB, BUILT TO 5 INCH IN 60 MIN'S  
FS- NBB

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.66	107.66	Initial Hydro-static
1	42.36	107.11	Open To Flow (1)
30	72.82	111.00	Shut-In(1)
75	1011.12	111.56	End Shut-In(1)
75	80.24	111.08	Open To Flow (2)
138	134.38	115.45	Shut-In(2)
196	975.39	114.89	End Shut-In(2)
197	1906.89	114.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90% WATER, 10 MUD	0.59
60.00	MW 65% WATER, 35% MUD	0.30
60.00	SOCWM 5% OIL, 40% WATER, 55% MUD	0.34
10.00	V SOCWM 1% OIL, 24% WATER, 75% MUD	0.14

## Gas Rates

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



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**FLUID SUMMARY**

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Job Ticket: 43695

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Test Start: 2011.09.12 @ 08:45:37

## 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:

23000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 3.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW 90% WATER, 10 MUD	0.590
60.00	MW 65% WATER, 35% MUD	0.295
60.00	SOCWM 5% OIL, 40% WATER, 55% MUD	0.341
10.00	VSOCWM 1% OIL, 24% WATER, 75% MUD	0.140

Total Length: 250.00 ft      Total Volume: 1.366 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES= 23000.0 @ 102F

### Pressure vs. Time

