



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45826

DST#: 2

ATTN: Kent Matson

Test Start: 2012.04.02 @ 09:59:00

GENERAL INFORMATION:

Formation: **Lansing C & D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:11:55

Time Test Ended: 16:47:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3996.00 ft (KB) To 4034.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4043.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 643.17 psig @ 3999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time: 09:59:00

End Time:

16:47:54

Time On Btm:

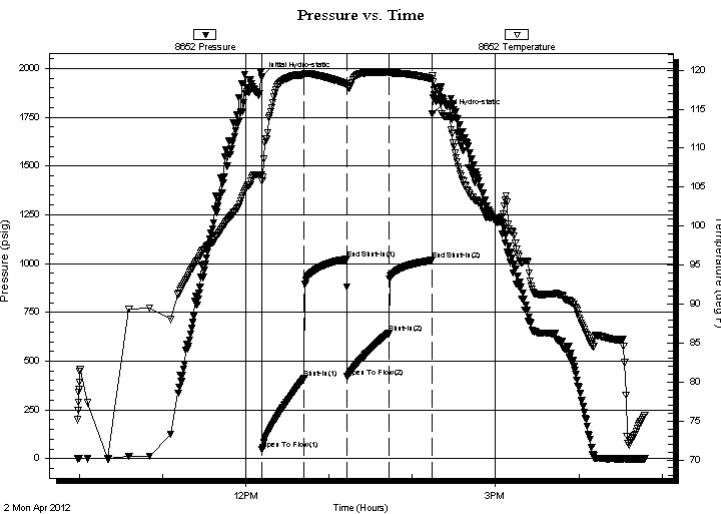
2012.04.02 @ 12:11:40

Time Off Btm:

2012.04.02 @ 14:14:40

TEST COMMENT: IF- Surface Blow Built to BOB in 3min
IS- No Blow
FF- Surface Blow Built to BOB in 3 1/4min
FS- No Blow

(Dropped the Bar)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.69	106.65	Initial Hydro-static
1	49.57	105.78	Open To Flow (1)
31	411.11	119.45	Shut-In(1)
61	1022.87	118.24	End Shut-In(1)
62	419.82	118.00	Open To Flow (2)
92	643.17	119.66	Shut-In(2)
123	1016.97	118.88	End Shut-In(2)
123	1766.86	119.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1236.00	MCW 6%w 94%w	16.24
124.00	WCM 35%w 65%w	1.74
20.00	WCM 18%w 82%w	0.28

* Recovery from multiple tests

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:

15500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1236.00	MCW 6%m 94%w	16.236
124.00	WCM 35%w 65%m	1.739
20.00	WCM 18%w 82%m	0.281

Total Length: 1380.00 ft Total Volume: 18.256 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .408 @ 72f = 15500

Pressure vs. Time

