



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45139

DST#: 4

Test Start: 2012.03.08 @ 11:22:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:55

Time Test Ended: 17:32:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4711.00 ft (KB) To 4738.00 ft (KB) (TVD)

Reference Elevations: 3018.00 ft (KB)

Total Depth: 4738.00 ft (KB) (TVD)

3013.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 23.76 psig @ 4712.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.08

End Date:

2012.03.08

Last Calib.:

2012.03.08

Start Time:

11:22:00

End Time:

17:32:09

Time On Btm:

2012.03.08 @ 13:18:55

Time Off Btm:

2012.03.08 @ 15:23:25

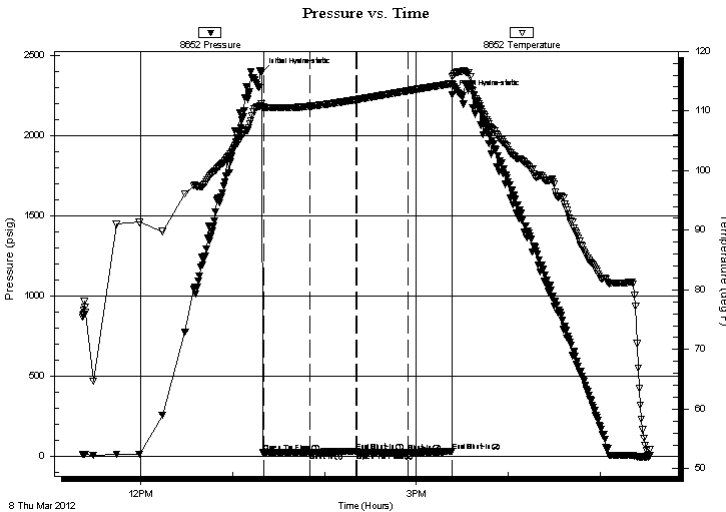
TEST COMMENT: IF- Weak Surface Blow Built to 1/2"

IS- No Blow

FF- No Blow

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.32	111.24	Initial Hydro-static
1	20.55	110.67	Open To Flow (1)
32	23.17	110.78	Shut-In(1)
62	29.83	111.89	End Shut-In(1)
63	21.96	111.91	Open To Flow (2)
96	23.76	113.37	Shut-In(2)
125	27.49	114.58	End Shut-In(2)
125	2257.59	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCM 4%oil 96%m	0.01

* 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

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.77 in³

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OCM 4%oil 96%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8652

Inside

Grand Mesa Operating Co.

Schowalter #1-14

DST Test Number: 4

