



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: 45828

DST#: 4

ATTN: Kent Matson

Test Start: 2012.04.05 @ 16:14:00

GENERAL INFORMATION:

Formation: **Altamont / Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:09:40

Time Test Ended: 22:22:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4365.00 ft (KB) To 4435.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4435.00 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: 103.44 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.05

End Date:

2012.04.05

Last Calib.:

2012.04.05

Start Time: 16:14:00

End Time:

22:22:54

Time On Btm:

2012.04.05 @ 18:09:25

Time Off Btm:

2012.04.05 @ 20:14:10

TEST COMMENT: IF- Weak Surface Blow Built to 1/4"

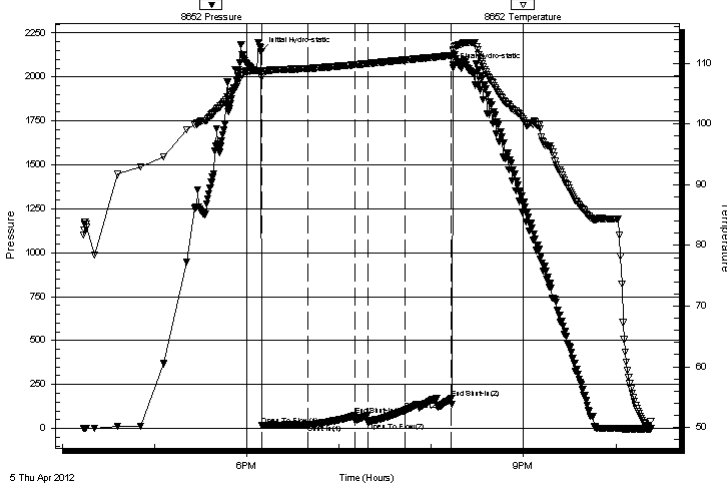
IS- No Blow

FF- No Blow

FS- No Blow

On second open the elevators weren't slacked all the way off the tool either didnt make the full 5 rounds or back lashed i looked up to see what was happening and lost track of it for a second

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.22	108.38	Initial Hydro-static
1	18.51	107.73	Open To Flow (1)
31	25.55	109.15	Shut-In(1)
61	74.97	109.75	End Shut-In(1)
70	35.19	109.95	Open To Flow (2)
94	103.44	110.55	Shut-In(2)
124	170.07	111.29	End Shut-In(2)
125	2050.50	112.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 4%oil 96% m	0.02

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 4%oil 96%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

