



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

21-16s-33w

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: John Goldsmith

Unruh 1-21

Job Ticket: 44334

DST#: 3

Test Start: 2011.10.22 @ 17:35:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:03:30

Time Test Ended: 23:53:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 28

Interval: 4612.00 ft (KB) To 4662.00 ft (KB) (TVD)

Reference Elevations: 3082.00 ft (KB)

Total Depth: 4662.00 ft (KB) (TVD)

3077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 20.73 psig @ 4613.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.22

End Date: 2011.10.22

Last Calib.: 2011.10.22

Start Time: 17:35:01

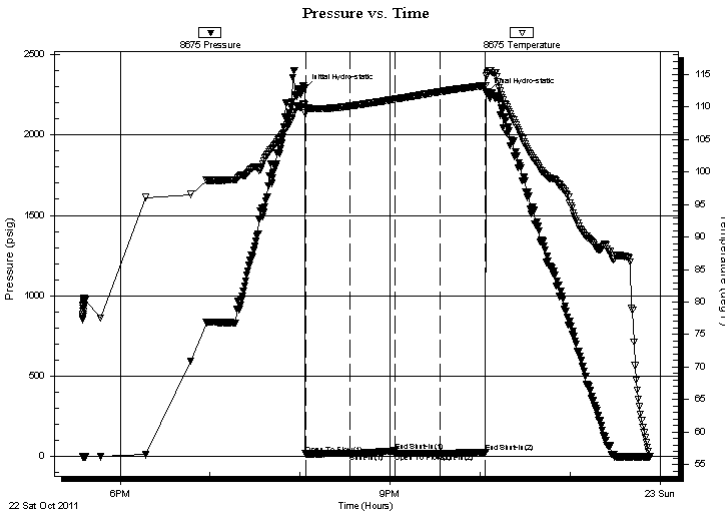
End Time: 23:53:15

Time On Btm: 2011.10.22 @ 20:03:15

Time Off Btm: 2011.10.22 @ 22:04:30

TEST COMMENT: Built to 1/4" blow
No return blow
No blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.43	110.36	Initial Hydro-static
1	17.45	109.05	Open To Flow (1)
30	18.58	110.14	Shut-In(1)
60	35.86	111.20	End Shut-In(1)
61	18.22	111.20	Open To Flow (2)
90	20.73	112.35	Shut-In(2)
121	28.39	113.33	End Shut-In(2)
122	2266.52	115.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.00

* 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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100% Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

