



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

30-16s-32w

1700 N Waterfront PKWY
BLDG 600 Wichita, KS 67206-5514

Wel-Zan 1-30

Job Ticket: 45435

DST#: 2

ATTN: John Goldsmith

Test Start: 2011.12.05 @ 22:25:00

GENERAL INFORMATION:

Formation: **Kansas City "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:44:00

Time Test Ended: 06:24:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4026.00 ft (KB) To 4061.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4061.00 ft (KB) (TVD)

2947.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 319.94 psig @ 4027.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.05

End Date:

2011.12.06

Last Calib.:

2011.12.06

Start Time: 22:25:01

End Time:

06:24:45

Time On Btm:

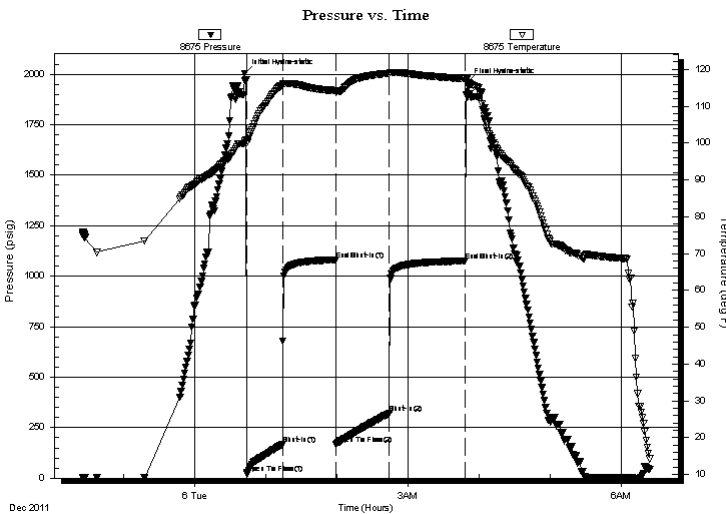
2011.12.06 @ 00:42:00

Time Off Btm:

2011.12.06 @ 03:49:45

TEST COMMENT: B.O.B. in 10 min.
Bled off for 5 min. Weak return blow
B.O.B. in 11 min.
Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.29	100.16	Initial Hydro-static
2	22.96	100.03	Open To Flow (1)
32	167.87	115.77	Shut-In(1)
77	1081.35	114.30	End Shut-In(1)
78	169.02	113.77	Open To Flow (2)
123	319.94	118.93	Shut-In(2)
187	1075.97	117.46	End Shut-In(2)
188	1956.55	117.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	100% W	6.51

* 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:

50000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	100% W	6.508

Total Length: 540.00 ft Total Volume: 6.508 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .30 @ 30 F = 50,000

Pressure vs. Time

