



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Company
 1700 N Waterfront PKWY
 BLDG 600 Wichita, KS 67206-5514
 ATTN: John Goldsmith

30-16s-32w
Wel-Zan 1-30
 Job Ticket: 45438 **DST#: 5**
 Test Start: 2011.12.09 @ 15:40:00

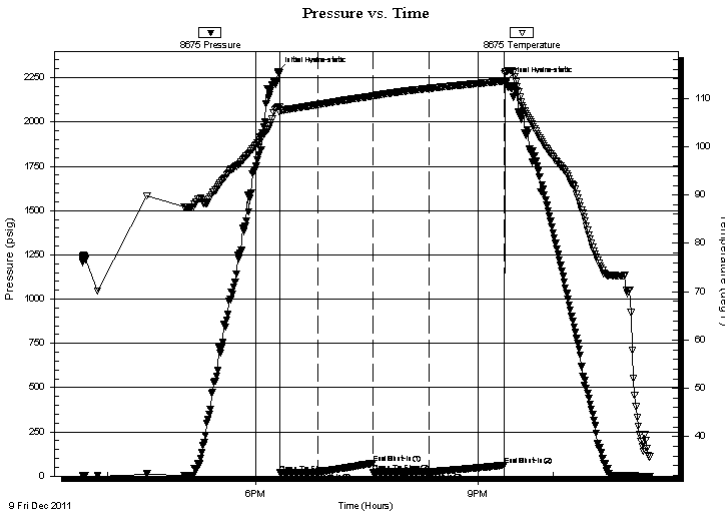
GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:19:30
 Time Test Ended: 23:18:30
 Interval: **4518.00 ft (KB) To 4567.00 ft (KB) (TVD)**
 Total Depth: 4567.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 2952.00 ft (KB)
 2947.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8675 Inside
 Press @ Run Depth: 23.67 psig @ 4519.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.09 End Date: 2011.12.09 Last Calib.: 2011.12.09
 Start Time: 15:40:01 End Time: 23:18:30 Time On Btm: 2011.12.09 @ 18:18:00
 Time Off Btm: 2011.12.09 @ 21:21:45

TEST COMMENT: Built to 1" blow
 No return blow
 Weak surface blow
 No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.44	108.30	Initial Hydro-static
2	18.82	107.00	Open To Flow (1)
32	22.79	108.70	Shut-In(1)
77	72.73	110.45	End Shut-In(1)
77	19.18	110.46	Open To Flow (2)
122	23.67	112.07	Shut-In(2)
183	61.38	113.55	End Shut-In(2)
184	2227.98	115.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud with oil scum	0.02

* 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud with oil scum	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

