



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N Waterfront Pkwy
 Bldg 600
 Wichita, Ks 67206
 ATTN: John Glodsmith

25 12s 32w Logan, Ks

#1-25 A-K

Job Ticket: 44415

DST#: 6

Test Start: 2012.01.23 @ 15:31:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:51:45

Time Test Ended: 00:21:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

Interval: 4547.00 ft (KB) To 4618.00 ft (KB) (TVD)

Reference Elevations: 3021.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

3016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 320.61 psig @ 4548.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.23

End Date:

2012.01.23

Last Calib.:

2012.01.23

Start Time: 14:31:05

End Time:

23:21:15

Time On Btm:

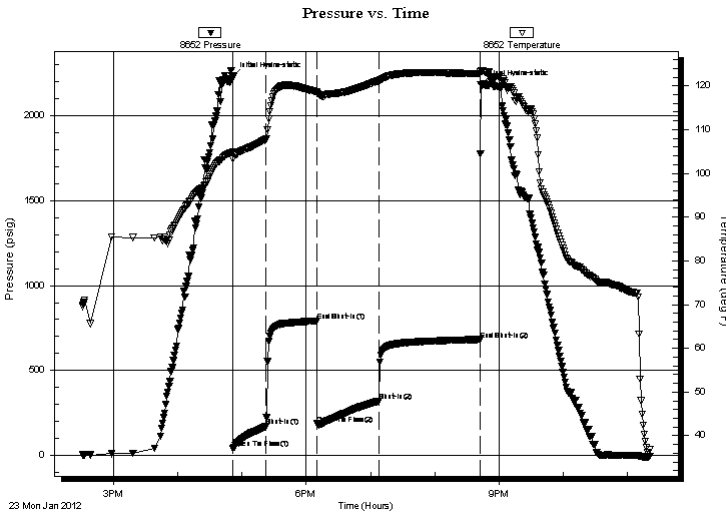
2012.01.23 @ 16:51:30

Time Off Btm:

2012.01.23 @ 20:43:00

TEST COMMENT: IF: BOB @ 13 minutes.
 IS: 2 1/2" return.
 FF: BOB @ 20 minutes.
 FS: 2" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.21	104.82	Initial Hydro-static
1	40.90	103.38	Open To Flow (1)
31	171.30	107.78	Shut-In(1)
78	792.32	118.69	End Shut-In(1)
79	186.07	118.44	Open To Flow (2)
137	320.61	121.17	Shut-In(2)
231	680.44	122.76	End Shut-In(2)
232	2182.52	123.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	gmco 30g 30m 40o	1.87
512.00	gsmco 25g 5m 70o	5.09
0.00	295' GIP	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:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	gmco 30g 30m 40o	1.868
512.00	gsmco 25g 5m 70o	5.093
0.00	295' GIP	0.000

Total Length: 760.00 ft Total Volume: 6.961 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

