



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: 44414

DST#: 5

Test Start: 2012.01.22 @ 19:20:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:18:45
 Time Test Ended: 05:17:00
 Interval: **4546.00 ft (KB) To 4604.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 40
 Reference Elevations: 3021.00 ft (KB)
 3016.00 ft (CF)
 KB to GR/CF: 5.00 ft

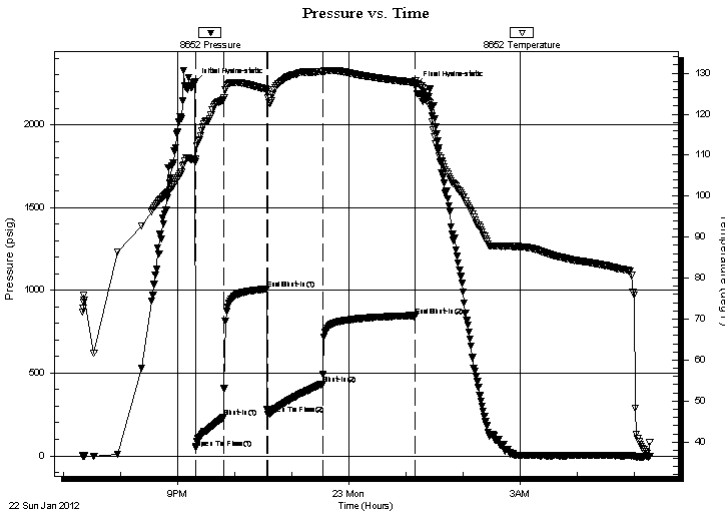
Serial #: 8652

Inside

Press @ Run Depth: 434.30 psig @ 4547.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.22 End Date: 2012.01.23 Last Calib.: 2012.01.23
 Start Time: 19:20:05 End Time: 05:17:00 Time On Btm: 2012.01.22 @ 21:18:15
 Time Off Btm: 2012.01.23 @ 01:10:15

TEST COMMENT: IF: BOB @ 8 minutes.
 IS: 4" return.
 FF: BOB @ 10 minutes.
 FS: 4" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.91	109.11	Initial Hydro-static
1	48.41	108.44	Open To Flow (1)
31	233.22	123.53	Shut-In(1)
76	1007.81	126.05	End Shut-In(1)
77	250.66	124.97	Open To Flow (2)
135	434.30	130.33	Shut-In(2)
232	846.66	127.72	End Shut-In(2)
232	2235.91	128.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	gmco 25g 25m 50o	1.25
651.00	gsmco 30g 5m 65o	6.48
248.00	gmco 40g 10m 50o	2.47
0.00	400' 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

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.93 in³

Resistivity: ohm.m

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

ft

ft

ft

ft

Oil API:

Water Salinity:

28 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	gmco 25g 25m 50o	1.252
651.00	gsmco 30g 5m 65o	6.476
248.00	gmco 40g 10m 50o	2.467
0.00	400' GIP	0.000

Total Length: 1085.00 ft

Total Volume: 10.195 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8652

Inside

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#1-25 A-K

DST Test Number: 5

