



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

4 16s 32w Scott, Ks

Hoeme 1-4

Job Ticket: 44521

DST#: 5

Test Start: 2012.03.20 @ 17:51:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:15

Time Test Ended: 01:58:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley

Unit No: Walter

Interval: 4531.00 ft (KB) To 4590.00 ft (KB) (TVD)

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4590.00 ft (KB) (TVD)

2999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: 97.37 psig @ 4532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.20

End Date:

2012.03.21

Last Calib.: 2012.03.21

Start Time: 17:51:05

End Time:

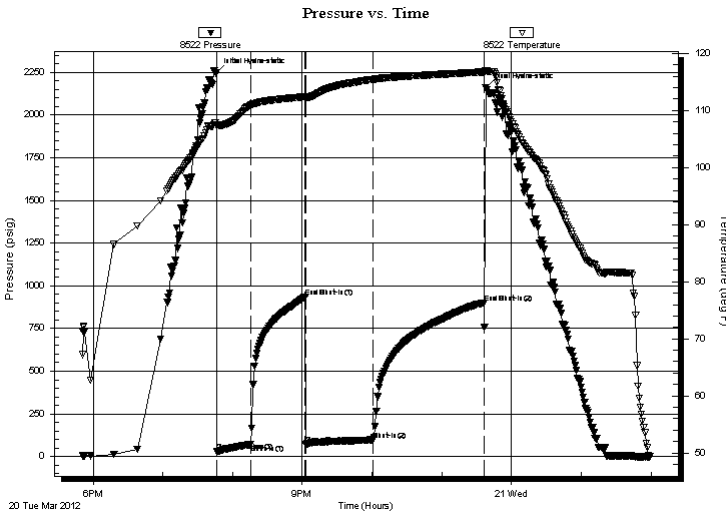
01:58:44

Time On Btm: 2012.03.20 @ 19:46:00

Time Off Btm: 2012.03.20 @ 23:37:45

TEST COMMENT: IF: 4" blow.
 IS: No return.
 FF: 3 1/2" blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2248.90	107.91	Initial Hydro-static
1	27.68	107.26	Open To Flow (1)
30	69.69	110.92	Shut-In(1)
77	934.12	112.40	End Shut-In(1)
77	73.04	112.03	Open To Flow (2)
135	97.37	115.41	Shut-In(2)
231	899.89	116.73	End Shut-In(2)
232	2160.02	117.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	sow cm 1o 14w 85m	1.00

* 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:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

22000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	sow cm 1o 14w 85m	0.998

Total Length: 160.00 ft Total Volume: 0.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .400 @ 53 = 22,000ppm

Serial #: 8522

Inside

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Hoerne 1-4

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Pressure vs. Time

