



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44520

DST#: 4

Test Start: 2012.03.19 @ 23:45:00

GENERAL INFORMATION:

Formation: **Ft.Scott - Vertrigri**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:15

Time Test Ended: 06:42:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley

Unit No: Walter

Interval: 4455.00 ft (KB) To 4538.00 ft (KB) (TVD)

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4538.00 ft (KB) (TVD)

2999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8678 Inside

Press @ Run Depth: 42.39 psig @ 4456.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.19

End Date:

2012.03.20

Last Calib.: 2012.03.20

Start Time: 23:45:05

End Time:

06:42:44

Time On Btm: 2012.03.20 @ 02:13:00

Time Off Btm: 2012.03.20 @ 04:20:45

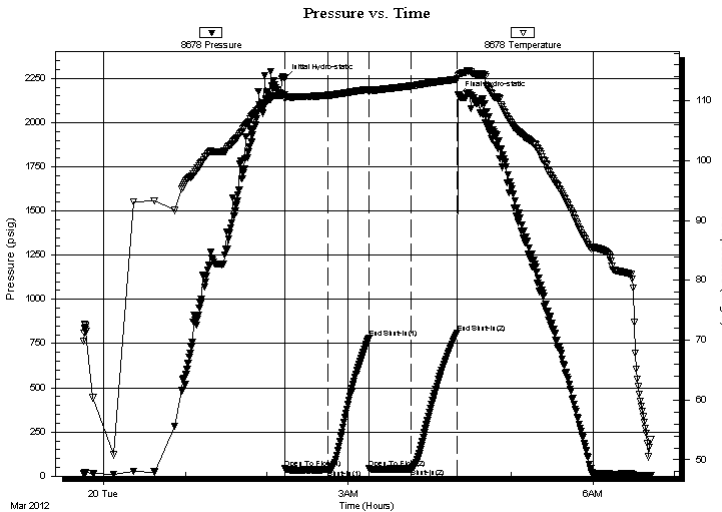
TEST COMMENT: IF: Surface blow, Died @ 20 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.06	111.04	Initial Hydro-static
1	42.26	110.37	Open To Flow (1)
32	37.51	110.95	Shut-In(1)
62	781.75	111.94	End Shut-In(1)
63	43.25	111.55	Open To Flow (2)
93	42.39	112.50	Shut-In(2)
127	810.94	113.63	End Shut-In(2)
128	2155.18	114.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100m	0.02

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



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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:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

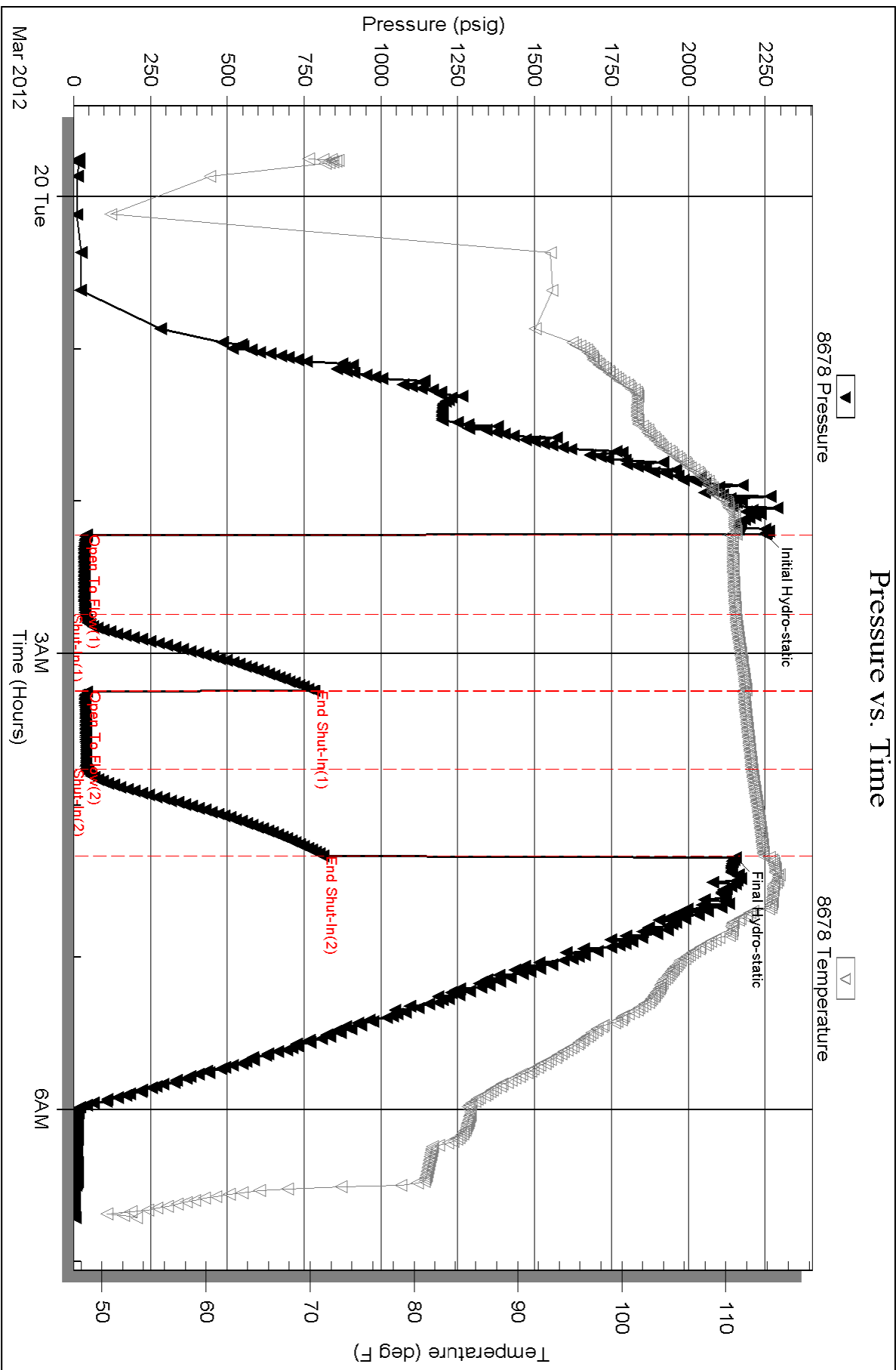
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8522

Inside

Grand Mesa Operating Co.

Hoerne 1-4

DST Test Number: 4

