



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Grand Mesa Operating Co.

**23-16s-33w Scott Co. KS**

1700 N. Waterfront PKWY BLDG 600  
Wichita KS. 67206

**Griffith # 1-23**

Job Ticket: 45830

**DST#: 6**

ATTN: Kent Matson

Test Start: 2012.04.08 @ 10:16:00

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:40

Time Test Ended: 18:20:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

**Interval: 4705.00 ft (KB) To 4760.00 ft (KB) (TVD)**

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4760.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8652**

**Inside**

Press @ Run Depth: 1161.20 psig @ 4706.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.08

End Date:

2012.04.08

Last Calib.: 2012.04.08

Start Time: 10:16:00

End Time:

18:20:09

Time On Btm: 2012.04.08 @ 12:24:10

Time Off Btm: 2012.04.08 @ 15:32:39

TEST COMMENT: IF- BOB in 30seconds

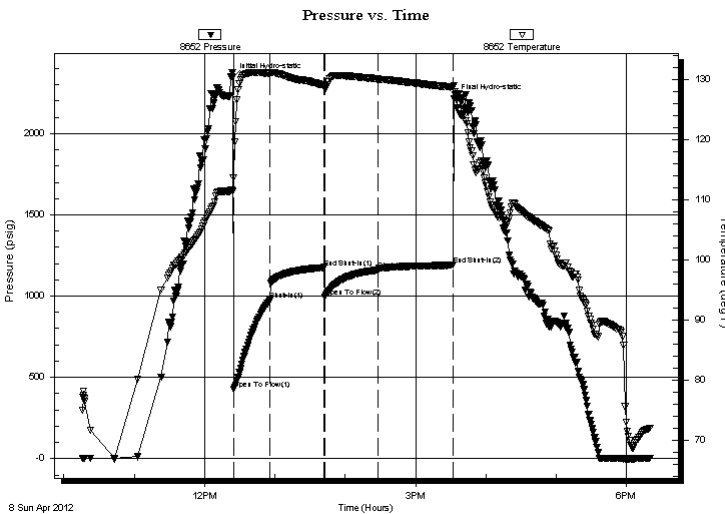
Dropped the Bar

IS- No Blow

FF- BOB in 1 1/2min

FS- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.86	111.34	Initial Hydro-static
1	426.76	113.57	Open To Flow (1)
32	973.37	130.93	Shut-In(1)
78	1175.46	128.89	End Shut-In(1)
79	993.69	128.69	Open To Flow (2)
124	1161.20	130.00	Shut-In(2)
188	1190.35	128.65	End Shut-In(2)
189	2215.27	128.95	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
2044.00	MCW 3%w 97%w	27.57
62.00	OGMCW 3%oil 7%g 42%m 48%w	0.87
124.00	OGWCM 3%oil 7%g 20%w 70%m	1.74
186.00	GWCM 3%g 7%w 90%m with Skim	2.61
72.00	OWCM 2%oil 3%w 95%m	1.01

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating Co.

**23-16s-33w Scott Co. KS**

1700 N. Waterfront PKWY BLDG 600  
Wichita KS. 67206

**Griffith # 1-23**

Job Ticket: 45830

**DST#: 6**

ATTN: Kent Matson

Test Start: 2012.04.08 @ 10:16:00

## 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:

50000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2044.00	MCW 3%m 97%w	27.570
62.00	OGMCW 3%oil 7%g 42%m 48%w	0.870
124.00	OGWCM 3%oil 7%g 20%w 70%m	1.739
186.00	GWCM 3%g 7%w 90%m with Skim of Oil	2.609
72.00	OWCM 2%oil 3%w 95%m	1.010

Total Length: 2488.00 ft      Total Volume: 33.798 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

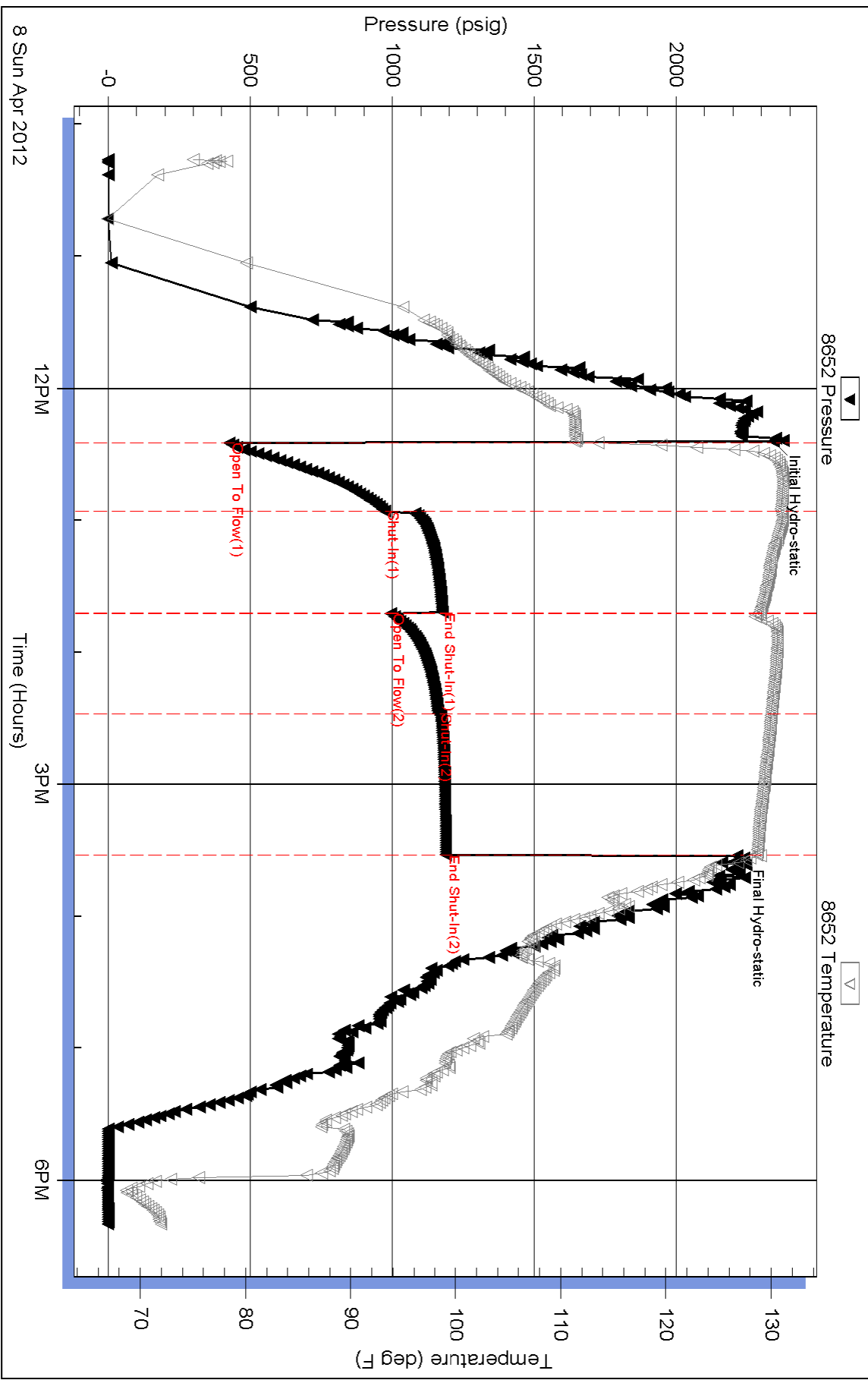
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .131 @ 78f = 50000

### Pressure vs. Time



Serial #: 8322

Outside Grand Mesa Operating Co.

Griffith # 1-23

DST Test Number: 6

