



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Grand Mesa Operating Co  
 1700 N Waterfront Pkwy  
 Bldg 600  
 Wichita, Ks 67206  
 ATTN: Steve Carl

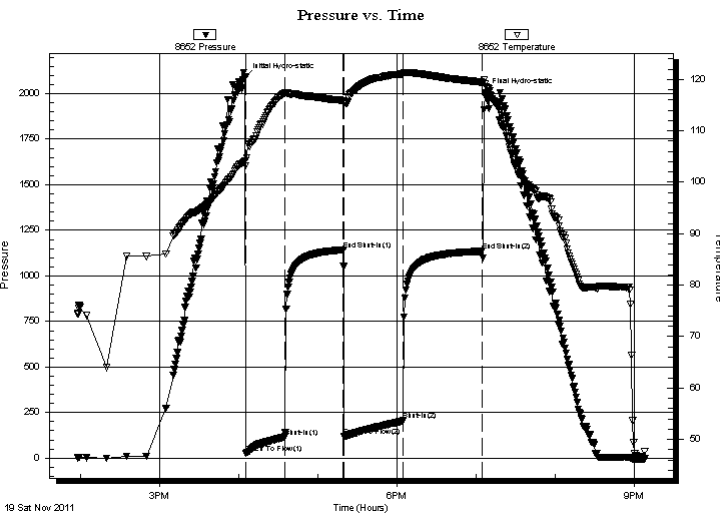
**27 16s 37w Scott, Ks**  
**#1-27 Riner**  
 Job Ticket: 45359      **DST#: 2**  
 Test Start: 2011.11.19 @ 13:58:00

## GENERAL INFORMATION:

Formation: **Swope**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:05:15  
 Time Test Ended: 21:08:00  
 Interval: **4252.00 ft (KB) To 4300.00 ft (KB) (TVD)**  
 Total Depth: 4252.00 ft (KB) (TVD)  
 Hole Diameter: 6.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 40  
 Reference Elevations: 3037.00 ft (KB)  
 3032.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8652      Inside**  
 Press @ Run Depth: 205.64 psig @ 4253.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.11.19      End Date: 2011.11.19      Last Calib.: 2011.11.19  
 Start Time: 13:58:05      End Time: 21:07:59      Time On Btm: 2011.11.19 @ 16:05:00  
 Time Off Btm: 2011.11.19 @ 19:06:45

**TEST COMMENT:** IF: BOB @ 28 minutes.  
 IS: No return.  
 FF: 8" blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2089.85	104.13	Initial Hydro-static
1	26.89	103.22	Open To Flow (1)
30	116.45	117.33	Shut-In(1)
75	1143.08	115.85	End Shut-In(1)
75	119.70	115.47	Open To Flow (2)
120	205.64	121.11	Shut-In(2)
180	1135.49	119.41	End Shut-In(2)
182	2005.24	119.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
420.00	mcw 10m 90w (oil spots)	4.82

\* Recovery from multiple tests

## Gas Rates

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



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ATTN: Steve Carl

**#1-27 Riner**

Job Ticket: 45359

**DST#: 2**

Test Start: 2011.11.19 @ 13:58:00

## GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:15

Time Test Ended: 21:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

**Interval: 4252.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Reference Elevations: 3037.00 ft (KB)

Total Depth: 4252.00 ft (KB) (TVD)

3032.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8360 Outside**

Press @ Run Depth: psig @ 4253.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.19 End Date: 2011.11.19

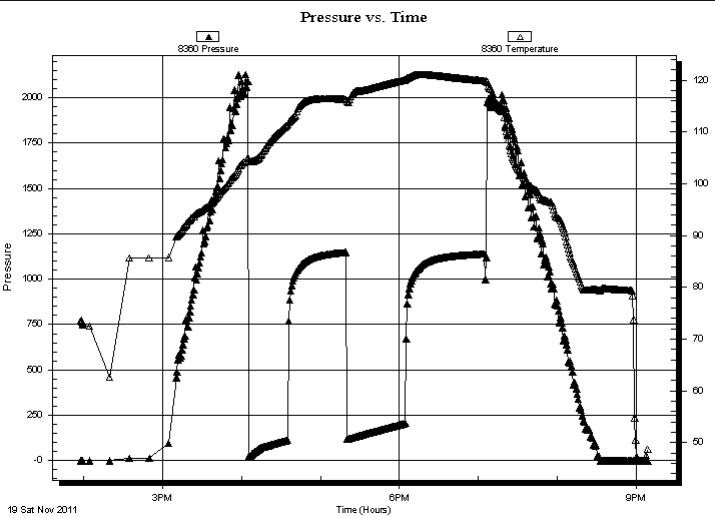
Last Calib.: 2011.11.19

Start Time: 13:58:05 End Time: 21:08:14

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB @ 28 minutes.  
IS: No return.  
FF: 8" blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
420.00	mcw 10m 90w (oil spots)	4.82

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating Co

**27 16s 37w Scott, Ks**

1700 N Waterfront Pkwy  
Bldg 600  
Wichita, Ks 67206  
ATTN: Steve Carl

**#1-27 Riner**

Job Ticket: 45359

**DST#: 2**

Test Start: 2011.11.19 @ 13:58:00

## 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:

45000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	mcw 10m 90w (oil spots)	4.817

Total Length: 420.00 ft      Total Volume: 4.817 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .192 @ 59f = 45000ppm

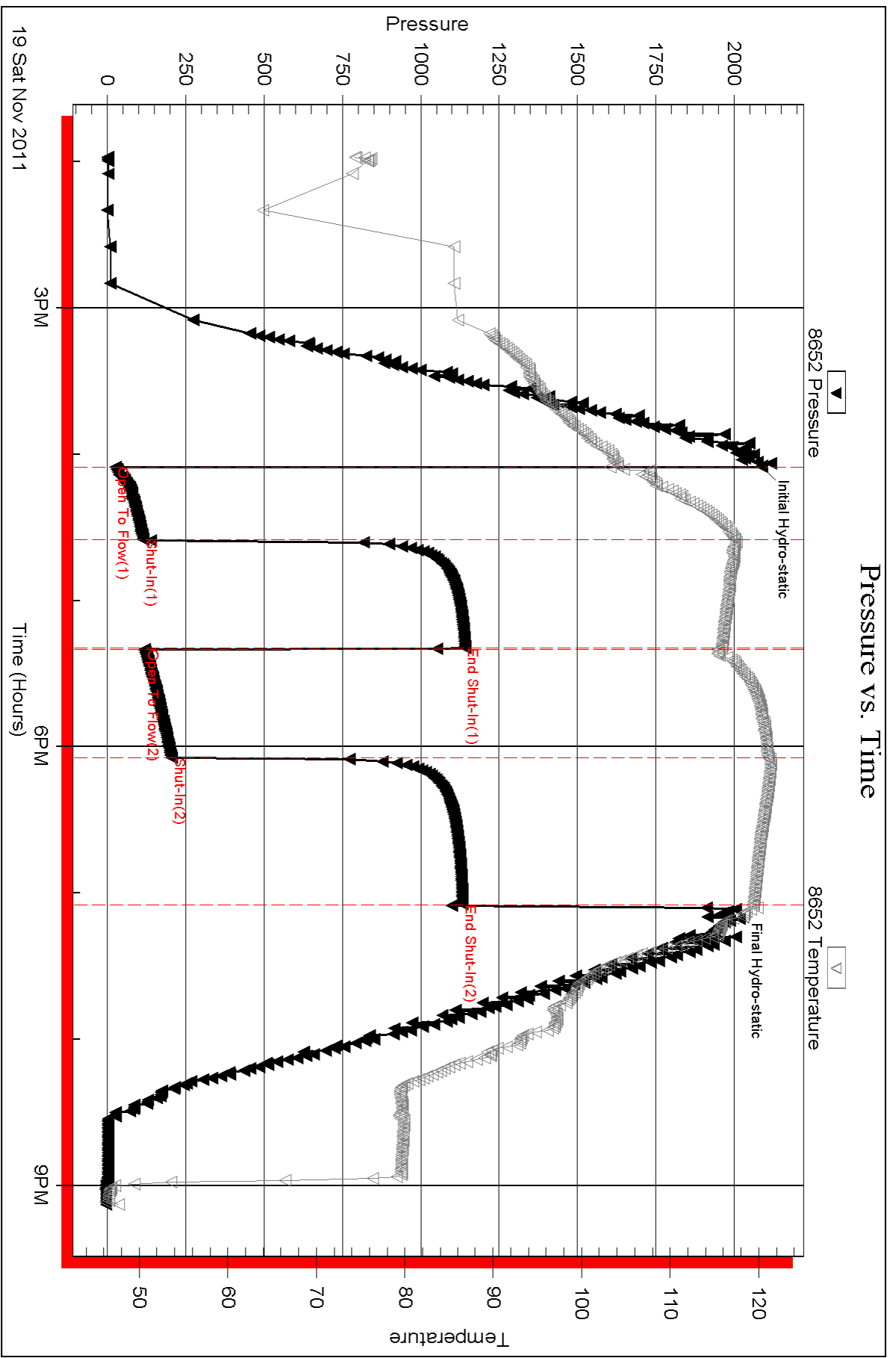
Serial #: 8652

Inside

Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45359

Printed: 2011.11.20 @ 12:18:44

Serial #: 8360

Outside Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 2

