



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Woolsey Operating Co.LLC

**Miller #5**

125 N.Market, Ste.1000  
Wichita Ks.67202

**31-34s-11w Barber Ks**

Job Ticket: 039280

**DST#: 1**

ATTN: Scott Alberg

Test Start: 2010.10.30 @ 18:35:06

## GENERAL INFORMATION:

Formation: **Misner**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:46:51

Time Test Ended: 04:11:36

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

**Interval: 4932.00 ft (KB) To 5055.00 ft (KB) (TVD)**

Reference Elevations: 1379.00 ft (KB)

Total Depth: 5055.00 ft (KB) (TVD)

1370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

**Serial #: 8167 Inside**

Press @ RunDepth: 663.09 psig @ 4933.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.30

End Date: 2010.10.31

Last Calib.: 2010.10.31

Start Time: 18:35:11

End Time: 04:11:36

Time On Btm: 2010.10.30 @ 21:37:06

Time Off Btm: 2010.10.31 @ 00:45:36

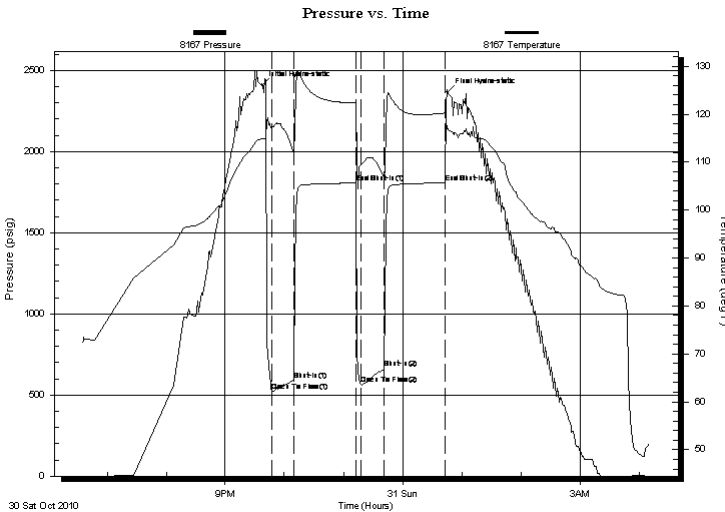
**TEST COMMENT:** IF: Strong blow . B.O.B. in 50 secs. GTS in 3 mins. (see gas flow report)

IS: Weak blow . 1/2 - 1".

FF: Strong blow . (see gas flow report)

FS: Weak blow . 1 - 4".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2407.52	114.85	Initial Hydro-static
10	522.10	117.02	Open To Flow (1)
33	594.35	111.76	Shut-In(1)
96	1807.17	122.35	End Shut-In(1)
101	567.56	109.38	Open To Flow (2)
125	663.09	106.74	Shut-In(2)
186	1809.28	120.26	End Shut-In(2)
189	2365.62	117.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	GCM w trace of oil 17%g 83%m	0.89
230.00	SGCM 5%g 95%m	2.41

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	60.00	2138.91
Last Gas Rate	1.00	90.00	3001.38
Max. Gas Rate	1.00	90.00	3001.38



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**FLUID SUMMARY**

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## 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:

3500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GCM w trace of oil 17%g 83%m	0.885
230.00	SGCM 5%g 95%m	2.406

Total Length: 410.00 ft

Total Volume: 3.291 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: caraway

Laboratory Location:

Recovery Comments:



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**GAS RATES**

Woolsey Operating Co.LLC

**Miller #5**

125 N.Market, Ste.1000  
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**31-34s-11w Barber Ks**

Job Ticket: 039280

**DST#: 1**

ATTN: Scott Alberg

Test Start: 2010.10.30 @ 18:35:06

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	1.00	60.00	2138.91
1	20	1.00	74.00	2541.40
1	30	1.00	80.00	2713.89
2	10	1.00	73.00	2512.65
2	20	1.00	86.00	2886.38
2	30	1.00	90.00	3001.38

