



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pioneer Resources  
 80 Windmill Dr.  
 Phillipsburg, Ks 67661  
 ATTN: Steve Murphy

**25-14s-30w-Gove Co,Ks**

**Groom #2**

Job Ticket: 52982

**DST#: 5**

Test Start: 2013.10.10 @ 23:15:00

## GENERAL INFORMATION:

Formation: **Miss Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:35:00

Time Test Ended: 07:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

**Interval: 4386.00 ft (KB) To 4406.00 ft (KB) (TVD)**

Total Depth: 4406.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2693.00 ft (KB)

2684.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 162.71 psig @ 4387.00 ft (KB)

Start Date: 2013.10.10

End Date:

2013.10.11

Start Time: 23:15:15

End Time:

07:38:30

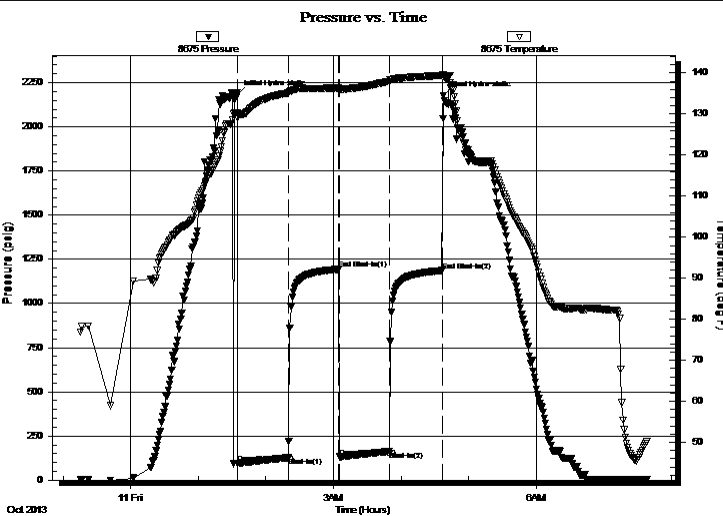
Capacity: 8000.00 psig

Last Calib.: 2013.10.11

Time On Btm: 2013.10.11 @ 01:34:45

Time Off Btm: 2013.10.11 @ 04:37:30

**TEST COMMENT:** Built to 8 1/2" blow  
 Bled off for 5 min. No return blow  
 Built to 8 1/2" blow  
 Bled off for 5 min. Built to 1/4" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.10	130.29	Initial Hydro-static
1	93.28	129.06	Open To Flow (1)
46	127.21	135.11	Shut-In(1)
90	1193.63	136.35	End Shut-In(1)
91	132.15	136.05	Open To Flow (2)
135	162.71	138.00	Shut-In(2)
182	1186.39	139.38	End Shut-In(2)
183	2178.79	139.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	93 Feet of weak gas in pipe	0.00
63.00	gco 10%G 90%O	0.88
189.00	mco 50%m 50%O	2.65
98.00	gcom 10%G 20%O 70%M	1.37

## 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:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	93 Feet of weak gas in pipe	0.000
63.00	gco 10%G 90%O	0.884
189.00	mco 50%m 50%O	2.651
98.00	gcom 10%G 20%O 70%M	1.375

Total Length: 350.00 ft      Total Volume: 4.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 35 @ 40 F = 37

### Pressure vs. Time

