



**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: 54515

**DST#: 1**

Test Start: 2013.10.06 @ 22:01:00

## GENERAL INFORMATION:

Formation: **Lkc "C"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:44:15  
 Time Test Ended: 05:36:30  
 Interval: **3796.00 ft (KB) To 3814.00 ft (KB) (TVD)**  
 Total Depth: 3814.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cornelio Landa III (  
 Unit No: 46  
 Reference Elevations: 2693.00 ft (KB)  
 2684.00 ft (CF)  
 KB to GR/CF: 9.00 ft

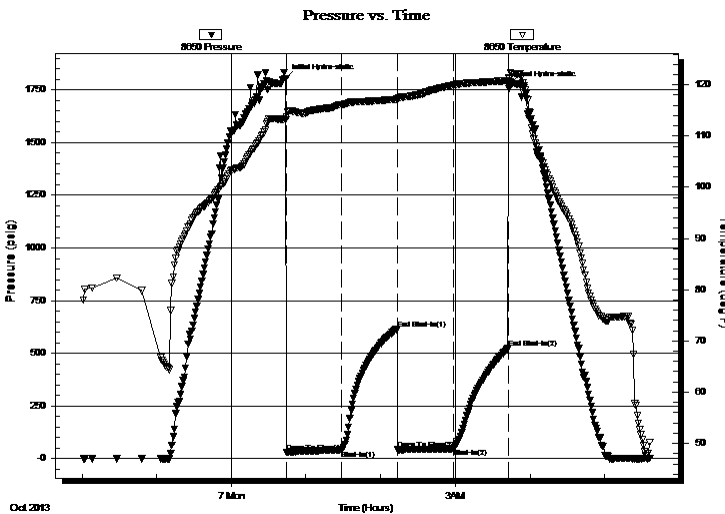
**Serial #: 8650**

**Outside**

Press @ Run Depth: 47.38 psig @ 3801.00 ft (KB)  
 Start Date: 2013.10.06 End Date: 2013.10.07  
 Start Time: 22:01:15 End Time: 05:36:30  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.10.07  
 Time On Btm: 2013.10.07 @ 00:43:45  
 Time Off Btm: 2013.10.07 @ 03:43:00

**TEST COMMENT:** IF: 4 in. of blow  
 IS: Bled off in 1 1/2 mins.- No return  
 FF: Surface blow -Died in 15 mins.  
 FS: No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.82	113.25	Initial Hydro-static
1	28.38	113.77	Open To Flow (1)
45	39.31	116.10	Shut-In(1)
90	616.04	117.17	End Shut-In(1)
90	41.93	116.89	Open To Flow (2)
135	47.38	119.92	Shut-In(2)
179	523.92	120.82	End Shut-In(2)
180	1770.63	121.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	Ocm 20o 80m	0.94

## Gas Rates

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



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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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	Ocm 20o 80m	0.940

Total Length: 67.00 ft      Total Volume: 0.940 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

