



**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: 54516

**DST#: 2**

Test Start: 2013.10.07 @ 14:25:00

## GENERAL INFORMATION:

Formation: **Lkc "D-E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:58:45  
 Time Test Ended: 22:52:30  
 Interval: **3830.00 ft (KB) To 3868.00 ft (KB) (TVD)**  
 Total Depth: 3868.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cornelio Landa III ( )  
 Unit No: 46  
 Reference Elevations: 2693.00 ft (KB)  
 2684.00 ft (CF)  
 KB to GR/CF: 9.00 ft

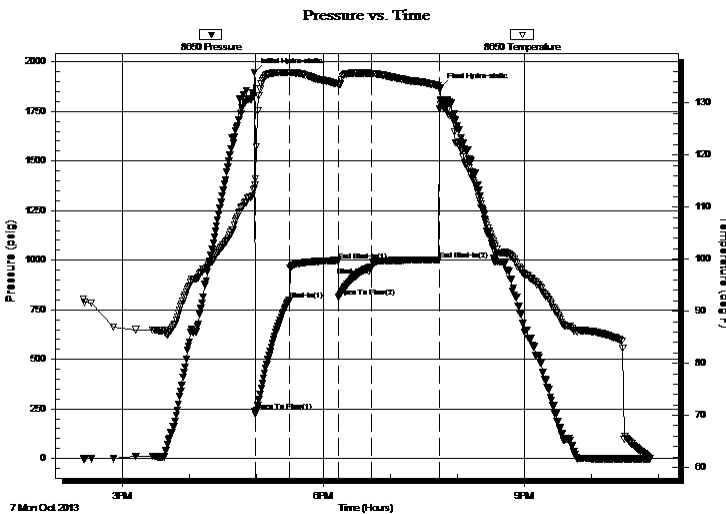
**Serial #: 8650**

**Outside**

Press @ Run Depth: 967.25 psig @ 3835.00 ft (KB)  
 Start Date: 2013.10.07 End Date: 2013.10.07  
 Start Time: 14:25:15 End Time: 22:52:30  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.10.07  
 Time On Btm: 2013.10.07 @ 16:58:15  
 Time Off Btm: 2013.10.07 @ 19:44:45

**TEST COMMENT:** IF: B.o.b. in 45 seconds  
 IS: Bled off in 2 1/2 mins.- No return  
 FF: 3 in. of blow -died in 27 min.  
 FS: No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.68	113.50	Initial Hydro-static
1	238.49	114.29	Open To Flow (1)
31	797.38	135.82	Shut-In(1)
75	997.69	133.63	End Shut-In(1)
76	815.15	133.59	Open To Flow (2)
105	967.25	135.63	Shut-In(2)
166	1001.79	133.29	End Shut-In(2)
167	1868.42	130.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	Gw m 10g 30w 60m	4.35
992.00	Mgw 10m 20g 70w	13.92
744.00	Gw 20g 80w	10.44
0.00	RW.08@56=125000	0.00

\* Recovery from multiple tests

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	Gw m 10g 30w 60m	4.348
992.00	Mgw 10m 20g 70w	13.915
744.00	Gw 20g 80w	10.436
0.00	RW.08@56=125000	0.000

Total Length: 2046.00 ft

Total Volume: 28.699 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

