



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pioneer Resources, Inc.  
 80 Windmill Dr.  
 Phillipsburg, Ks 67661  
 ATTN: Jason Alm

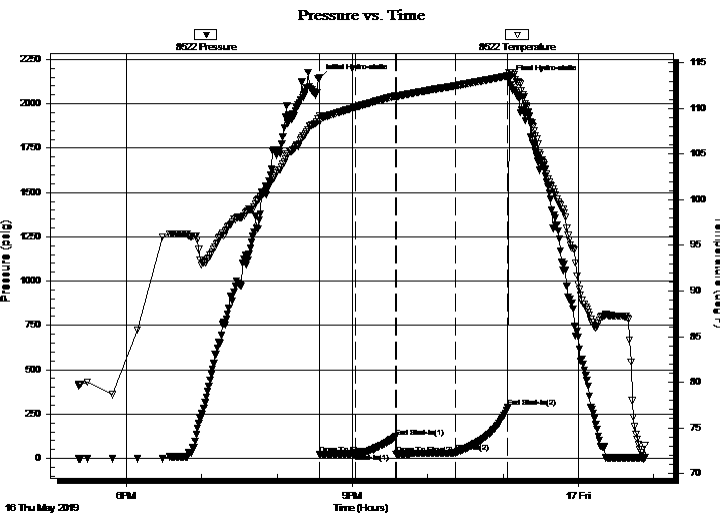
**13 14s 32w**  
**Knopp #8**  
 Job Ticket: 65222      **DST#: 1**  
 Test Start: 2019.05.16 @ 17:22:00

## GENERAL INFORMATION:

Formation: **Myric Station.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:34:00  
 Time Test Ended: 00:53:15  
 Interval: **4290.00 ft (KB) To 4321.00 ft (KB) (TVD)**  
 Total Depth: 4321.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2792.00 ft (KB)  
 2785.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8522      Inside**  
 Press@RunDepth: 32.57 psig @ 4291.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.05.16      End Date: 2019.05.17      Last Calib.: 2019.05.17  
 Start Time: 17:22:05      End Time: 00:53:14      Time On Btm: 2019.05.16 @ 20:33:45  
 Time Off Btm: 2019.05.16 @ 23:04:45

**TEST COMMENT:** 30- IF: 2" blow .  
 30- IS: No return.  
 45- FF: 5 1/2" blow .  
 45- FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.33	109.16	Initial Hydro-static
1	22.02	108.56	Open To Flow (1)
29	26.91	110.13	Shut-In(1)
61	122.08	111.38	End Shut-In(1)
61	22.54	111.26	Open To Flow (2)
109	32.57	112.49	Shut-In(2)
150	286.76	113.59	End Shut-In(2)
151	2136.63	113.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	gocm 10g 30o 60m	0.15
0.00	30' GIP	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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Job Ticket: 65222

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### 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:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gocm 10g 30o 60m	0.148
0.00	30' GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

