



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

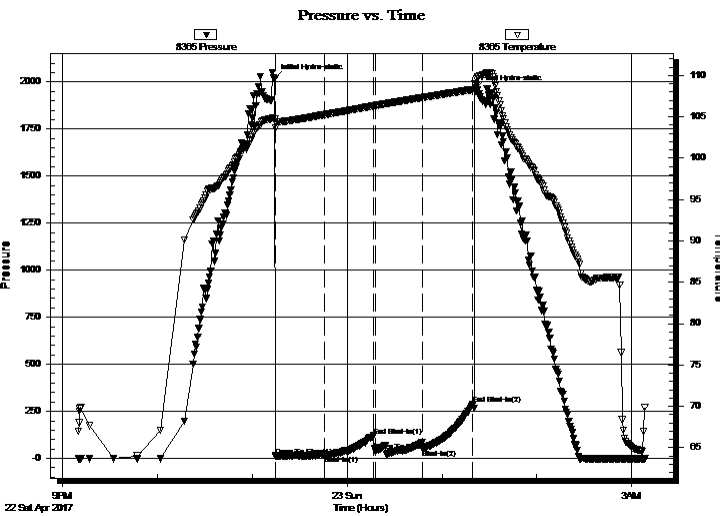
**13 14s 32w Logan, Ks**  
**Knopp #7**  
 Job Ticket: 61352      **DST#: 2**  
 Test Start: 2017.04.22 @ 21:10:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:14:30  
 Time Test Ended: 03:08:45  
 Interval: **4028.00 ft (KB) To 4070.00 ft (KB) (TVD)**  
 Total Depth: 4070.00 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: 2845.00 ft (KB)  
 2837.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8365      Inside**  
 Press@RunDepth: 50.72 psig @ 4026.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2017.04.22      End Date: 2017.04.23      Last Calib.: 2017.04.23  
 Start Time: 21:10:05      End Time: 03:08:44      Time On Btm: 2017.04.22 @ 23:14:15  
 Time Off Btm: 2017.04.23 @ 01:20:45

**TEST COMMENT:** IF: 1/2" blow.  
 IS: No return.  
 FF: Surface blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.84	104.74	Initial Hydro-static
1	11.94	103.63	Open To Flow (1)
32	15.44	105.24	Shut-In(1)
63	119.31	106.31	End Shut-In(1)
64	38.35	106.36	Open To Flow (2)
94	50.72	107.32	Shut-In(2)
126	285.48	108.29	End Shut-In(2)
127	1959.67	108.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (oil speks)	0.07

\* Recovery from multiple tests

## Gas Rates

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



### Pressure vs. Time

