



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources
 80 Windmill Dr
 Phillipsburg Ks 67661
 ATTN: Roger Wells

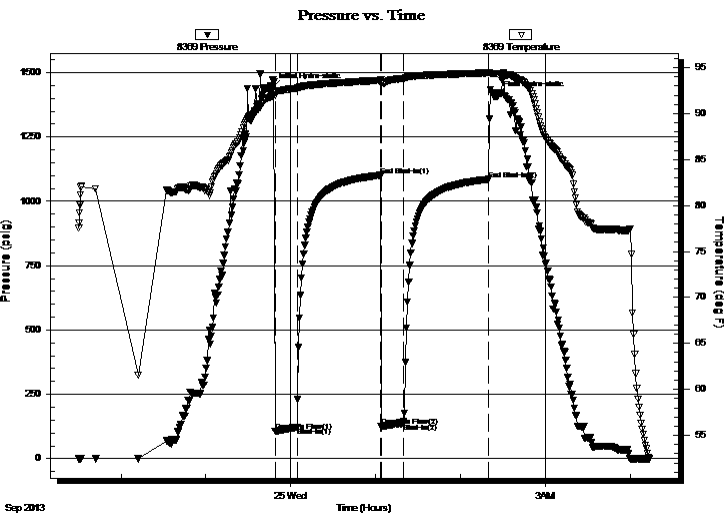
25-14s-16w Ellis
Baumrucker #5
 Job Ticket: 54815 **DST#: 1**
 Test Start: 2013.09.24 @ 21:30:13

GENERAL INFORMATION:

Formation: **Topeka-Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:48:53
 Time Test Ended: 04:13:37
 Interval: **2814.00 ft (KB) To 3025.00 ft (KB) (TVD)**
 Total Depth: 3025.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 1851.00 ft (KB)
 1846.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8369 Inside
 Press @ Run Depth: 136.87 psig @ 2817.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.24 End Date: 2013.09.25 Last Calib.: 2013.09.25
 Start Time: 21:30:13 End Time: 04:13:37 Time On Btm: 2013.09.24 @ 23:46:53
 Time Off Btm: 2013.09.25 @ 02:25:22

TEST COMMENT: 15-IFP-very w k surface bl , died in 10min
 60-ISIP-no bl
 15-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1443.02	91.86	Initial Hydro-static
2	105.33	92.01	Open To Flow (1)
18	122.13	92.77	Shut-In(1)
77	1101.20	93.64	End Shut-In(1)
77	124.70	93.22	Open To Flow (2)
93	136.87	93.82	Shut-In(2)
153	1085.72	94.45	End Shut-In(2)
159	1409.16	94.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.00

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud	0.000

Total Length: 70.00 ft Total Volume: bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

