



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources
 80 Windmill Dr.
 Phillipsburg KS, 67661
 ATTN: Steve Murphy

28-12s-14w Russell KS
Hopper #1
 Job Ticket: 56061 **DST#: 2**
 Test Start: 2014.01.25 @ 17:20:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:22:30
 Time Test Ended: 22:04:15
Interval: 2824.00 ft (KB) To 2834.00 ft (KB) (TVD)
 Total Depth: 2834.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 1611.00 ft (KB)
 1606.00 ft (CF)
 KB to GR/CF: 5.00 ft

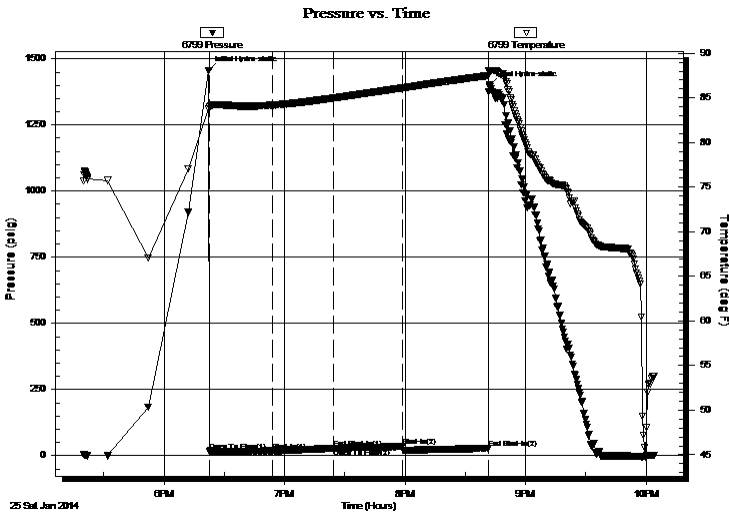
Serial #: 6799

Inside

Press @ Run Depth: 35.25 psig @ 2825.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.25 End Date: 2014.01.25 Last Calib.: 2014.01.25
 Start Time: 17:20:05 End Time: 22:04:14 Time On Btm: 2014.01.25 @ 18:22:15
 Time Off Btm: 2014.01.25 @ 20:42:00

TEST COMMENT: 30 - IF- 3/4" blow
 45 - IS- No return
 20 - FF- No blow
 45 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1456.33	83.77	Initial Hydro-static
1	17.78	83.81	Open To Flow (1)
32	18.41	84.18	Shut-In(1)
62	27.92	84.98	End Shut-In(1)
63	28.02	84.99	Open To Flow (2)
97	35.25	86.13	Shut-In(2)
140	27.65	87.50	End Shut-In(2)
140	1400.62	87.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - Show of oil, 100%M	0.04

* 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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - Show of oil, 100%M	0.037

Total Length: 5.00 ft Total Volume: 0.037 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

