



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.
 P.O. Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

29-27s-16w Kiowa Co., KS
Rosenberger 3-29
 Job Ticket: 54160 **DST#: 1**
 Test Start: 2014.07.27 @ 19:12:32

GENERAL INFORMATION:

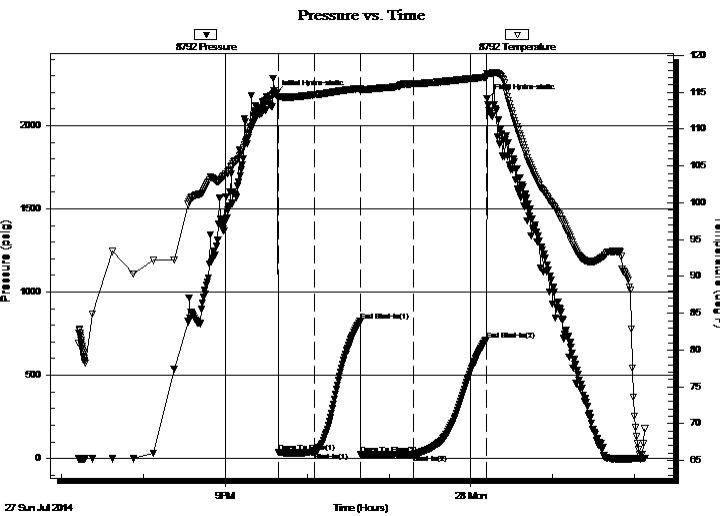
Formation: **KC "I"**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:38:47
 Time Test Ended: 02:07:32
 Interval: **4390.00 ft (KB) To 4410.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 2203.00 ft (KB)
 2192.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8792

Outside

Press @ Run Depth: 26.30 psig @ 4391.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.27 End Date: 2014.07.28 Last Calib.: 2014.07.28
 Start Time: 19:12:37 End Time: 02:07:31 Time On Btm: 2014.07.27 @ 21:36:32
 Time Off Btm: 2014.07.28 @ 00:11:47

TEST COMMENT: IF: Weak surf. blow throughout.
 IS: No blow.
 FF: No blow.
 FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.81	114.89	Initial Hydro-static
3	37.84	114.35	Open To Flow (1)
29	39.87	114.66	Shut-In(1)
63	823.73	115.51	End Shut-In(1)
63	23.69	115.13	Open To Flow (2)
101	26.30	116.16	Shut-In(2)
155	713.28	117.06	End Shut-In(2)
156	2162.03	117.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% m	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /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:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	7000 ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.39 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.08 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	Drig mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

