



**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: 54161      **DST#: 2**  
 Test Start: 2014.07.28 @ 10:52:40

## GENERAL INFORMATION:

Formation: **KC "J"**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 12:54:55  
 Time Test Ended: 18:43:40  
 Interval: **4436.00 ft (KB) To 4458.00 ft (KB) (TVD)**  
 Total Depth: 4458.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Reynolds  
 Unit No: 68  
 Reference Elevations: 2203.00 ft (KB)  
 2192.00 ft (CF)  
 KB to GR/CF: 11.00 ft

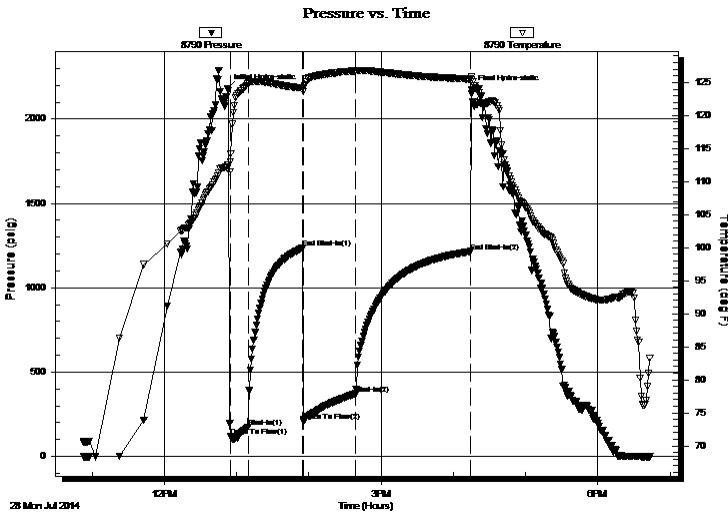
## Serial #: 8790

Inside

Press @ Run Depth: 372.56 psig @ 4437.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.07.28      End Date: 2014.07.28      Last Calib.: 2014.07.28  
 Start Time: 10:52:45      End Time: 18:43:39      Time On Btm: 2014.07.28 @ 12:52:10  
 Time Off Btm: 2014.07.28 @ 16:14:55

TEST COMMENT: IF: Strong blow . BOB @ 1min.  
 IS: Good blow . surf. - 6"  
 FF: Strong blow . BOB @ 1min. NO GTS.  
 FS: Fair blow . surf. - 3"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.45	112.46	Initial Hydro-static
3	119.86	112.96	Open To Flow (1)
18	175.53	124.88	Shut-In(1)
63	1234.82	124.16	End Shut-In(1)
64	210.71	123.64	Open To Flow (2)
107	372.56	126.75	Shut-In(2)
202	1215.19	125.51	End Shut-In(2)
203	2172.32	125.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
615.00	GCW 2%g, 98%w	5.63
150.00	WOGCM 15%w, 22%o, 23%g, 40%m	2.10
0.00	1765' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /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: 74000 ppm	
Viscosity: 73.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.08 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
615.00	GCW 2%g, 98%w	5.630
150.00	WOGCM 15%w , 22%o, 23%g, 40%m	2.104
0.00	1765' GIP	0.000

Total Length: 765.00 ft      Total Volume: 7.734 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

