

**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

PO Box 195  
Attica KS 67009

ATTN: Randy Newberry/Tim P

**10-34s-11w Barber,KS**

**Medicine River Ranch D-3**

Start Date: 2011.11.24 @ 01:21:37

End Date: 2011.11.24 @ 11:19:37

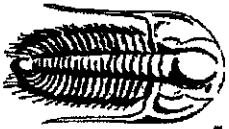
Job Ticket #: 44109      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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**TESTING, INC**

**DRILL STEM TEST REPORT**

N-10 Exploration LLC  
PO Box 195  
Aticca KS 67009  
ATTN: Randy Newberry/Timp P

Medicine River Ranch D-3  
**10-346-11w Barber,KS**  
Job Ticket: 44109 DST#: 3  
Test Start: 2011.11.24 @ 01:21:37

**GENERAL INFORMATION:**

Formation: **Viola**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 06:14:22  
Time Test Ended: 11:19:37  
Interval: **4914.00 ft (KB) To 4934.00 ft (KB) (TVD)**  
Total Depth: **4934.00 ft (KB) (TVD)**  
Hole Diameter: **7.88** inches Hole Condition: **Fair**

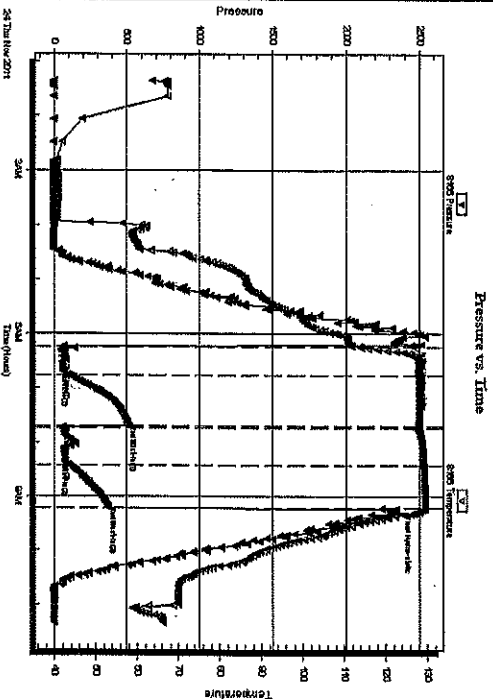
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Chris Staats**  
Unit No: **34**  
Reference Elevations: **1380.00 ft (KB)**  
**1370.00 ft (CF)**  
**10.00 ft**  
KB to GRICF:

**Serial #: 8166** **Outside**  
Press.@RunDepth: **98.63** psig @ **4915.00** ft (KB)  
Start Date: **2011.11.24** End Date: **2011.11.24**  
Start Time: **01:21:42** End Time: **11:19:37**

Capacity: **8000.00** psig  
Last Callb.: **2011.11.24**  
Time On Birt: **2011.11.24 @ 06:13:07**  
Time Off Birt: **2011.11.24 @ 09:14:22**

**TEST COMMENT:**

IF: Strong blow BOB 8 min  
IS: Weak surface blow back  
FF: Strong blow BOB 23 min  
FSI: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2446.48	111.71	Initial Hydro-static
2	58.70	113.76	Open To Flow (1)
34	104.19	128.07	Shut-In(1)
90	512.91	128.01	End Shut-In(1)
92	58.45	126.85	Open To Flow (2)
133	98.63	129.12	Shut-In(2)
180	372.96	129.56	End Shut-In(2)
182	2342.38	129.03	Final Hydro-static

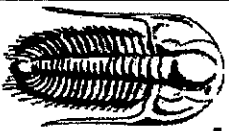
**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	310' GIP	0.00
90.00	W/M 10% water 90% mud	0.44
60.00	Slight oil cut M/W 1%oil 9% mud 90% w @10.59	

**Gas Rates**

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

\* Recovery from multiple tests



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**TOOL DIAGRAM**

N-10 Exploration LLC

Medicine River Ranch D-3

PO Box 195

10-34s-11w Barber, KS

Attica KS 67009

Job Ticket: 44109

DST#: 3

ATTN: Randy Newberry/Tim P

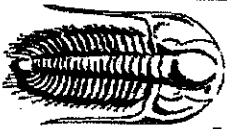
Test Start: 2011.11.24 @ 01:21:37.

**Tool Information**

Drill Pipe:	Length: 4793.00 ft	Diameter: 3.80 inches	Volume: 67.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 67.81 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4914.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4894.00	
Shut In Tool	5.00			4899.00	
Hydraulic tool	5.00			4904.00	
Packer	5.00			4909.00	21.00 Bottom Of Top Packer
Packer	5.00			4914.00	
Stub	1.00			4915.00	
Recorder	0.00	6773	Outside	4915.00	
Recorder	0.00	8166	Outside	4915.00	
Perforations	16.00			4931.00	
Bullnose	3.00			4934.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



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**FLUID SUMMARY**

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Job Ticket: 44109      **DST#: 3**  
Test Start: 2011.11.24 @ 01:21:37

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 39.00 sec/qt  
Water Loss: 9.59 in<sup>3</sup>  
Resistivity: 0.00 ohm\*in  
Salinity: 4000.00 ppm  
Filter Cake: 0.02 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig  
Oil API:  
Water Salinity: ppm  
deg API

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	310' GIP	0.000
90.00	W/M 10% water 90% mud	0.443
60.00	Slight oil cut MW 1%oil 9% mud 90% water	0.587

Total Length: 150.00 ft      Total Volume: 1.030 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

