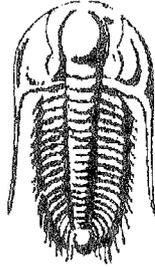


15-007-23393

16-34s-11w



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

**DRILL STEM TEST REPORT**

Prepared For: **Woolsey Operating Co LLC**

125 N Market Ste 1000  
Wichita KS 67202

ATTN: Bill Klaver

**16 34s 11w Barber KS**

**Landis #1**

Start Date: 2008.11.24 @ 05:36:33

End Date: 2008.11.24 @ 14:45:33

Job Ticket #: 33218                      DST #: 1

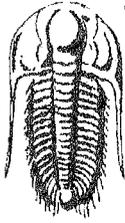
**KCC**  
**MAR 17 2009**  
**CONFIDENTIAL**

**RECEIVED**  
**MAR 17 2009**

**KCC WICHITA**

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

16-34-11w



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Woolsey Operating Co LLC

**Landis #1**

125 N Market Ste 1000  
Wichita KS 67202

**16 34s 11w Barber KS**

Job Ticket: 33218

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2008.11.24 @ 05:36:33

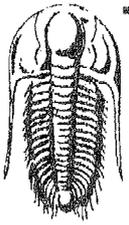
**Tool Information**

Drill Pipe:	Length: 4353.00 ft	Diameter: 3.80 inches	Volume: 61.06 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 61.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4500.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	138.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4473.00	
Shut In Tool	5.00			4478.00	
Hydraulic tool	5.00			4483.00	
Jars	5.00			4488.00	
Safety Joint	2.00			4490.00	
Packer	5.00			4495.00	28.00 Bottom Of Top Packer
Packer	5.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	8289	Inside	4501.00	
Recorder	0.00	8354	Inside	4501.00	
Perforations	8.00			4509.00	
Change Over Sub	1.00			4510.00	
Blank Spacing	94.00			4604.00	
Change Over Sub	1.00			4605.00	
Bullnose	5.00			4610.00	110.00 Bottom Packers & Anchor

**Total Tool Length: 138.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co LLC

Landis #1

125 N Market Ste 1000  
Wichita KS 67202

16 34s 11w Barber KS

Job Ticket: 33218

DST#: 1

ATTN: Bill Klaver

Test Start: 2008.11.24 @ 05:36:33

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

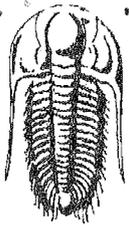
Length ft	Description	Volume bbl
145.00	drlg. mud	0.913

Total Length: 145.00 ft      Total Volume: 0.913 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Woolsey Operating Co LLC

**Landis #1**

125 N Market Ste 1000  
Wichita KS 67202

**16 34s 11w Barber KS**

ATTN: Bill Klaver

Job Ticket: 33218      **DST#: 1**

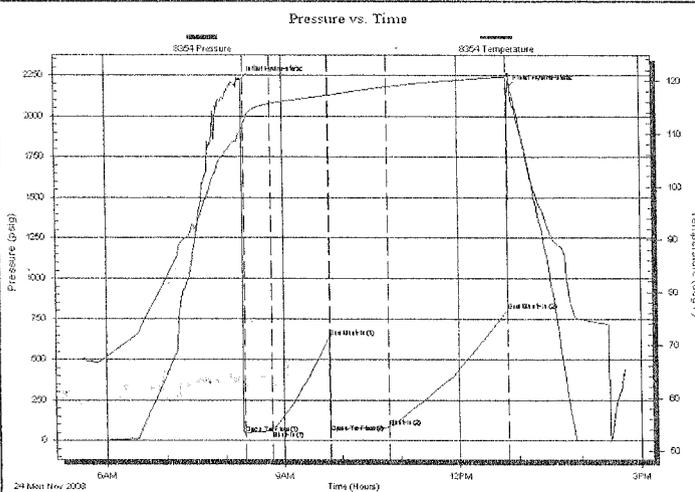
Test Start: 2008.11.24 @ 05:36:33

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:18:48  
 Time Test Ended: 14:45:33  
 Interval: **4500.00 ft (KB) To 4610.00 ft (KB) (TVD)**  
 Total Depth: 4610.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Esak Hadley  
 Unit No: 46  
 Reference Elevations: 1347.00 ft (KB)  
 1337.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8354**      **Inside**  
 Press@RunDepth: 83.14 psig @ 4501.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2008.11.24      End Date: 2008.11.24      Last Calib.: 2008.11.24  
 Start Time: 05:36:38      End Time: 14:44:33      Time On Btm: 2008.11.24 @ 08:16:48  
 Time Off Btm: 2008.11.24 @ 12:49:47

TEST COMMENT: IF Weak blow . BOB in 16 min.  
 ISI No blow .  
 FF Strong blow . BOB in 2 sec.  
 FSI No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.41	110.48	Initial Hydro-static
2	44.68	110.65	Open To Flow (1)
31	60.31	115.67	Shut-In(1)
91	639.14	117.26	End Shut-In(1)
92	50.21	117.23	Open To Flow (2)
152	83.14	118.85	Shut-In(2)
273	803.12	120.75	End Shut-In(2)
273	2168.53	121.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (tbl)
145.00	drlg. mud	0.91

## Gas Rates

Description	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DST Test Number: 1

16 34s 11w Barber KS

Woolsey Operating Co LLC

Inside

Serial #: 8354

### Pressure vs. Time

