

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co. Inc.**

605 S.6th, P.O.Box 124  
Kiowa KS 67070

ATTN: Bob Stolze

**18-33s-10w Barber KS**

**Newton #2**

Start Date: 2011.02.21 @ 21:37:22

End Date: 2011.02.22 @ 05:23:22

Job Ticket #: 041608      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Chieftain Oil Co. Inc.

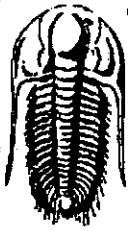
Newton #2

18-33s-10w Barber KS

DST # 1

Misener

2011.02.21



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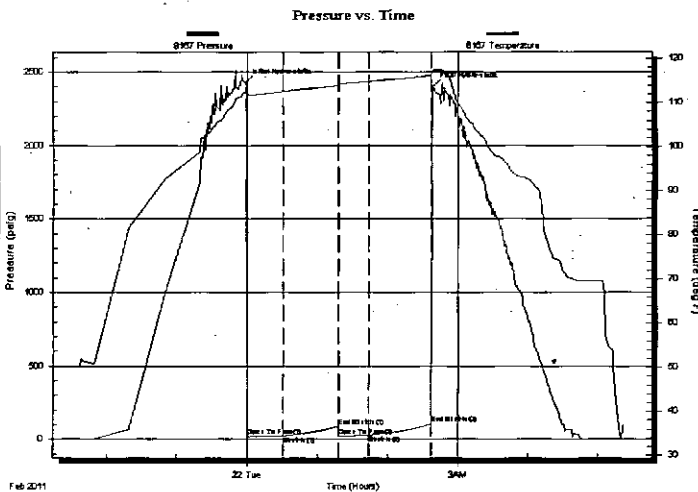
**Newton #2**  
**18-33s-10w Barber KS**  
Job Ticket: 041608      DST#: 1  
Test Start: 2011.02.21 @ 21:37:22

## GENERAL INFORMATION:

Formation: **Misener**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 23:59:22  
Time Test Ended: 05:23:22  
Test Type: **Conventional Bottom Hole**  
Tester: **Gary Pevoteaux**  
Unit No: **56**  
Interval: **4936.00 ft (KB) To 4965.00 ft (KB) (TVD)**  
Reference Elevations: **1611.00 ft (KB)**  
Total Depth: **4965.00 ft (KB) (TVD)**      **1601.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **10.00 ft**

**Serial #: 8167**      Inside  
Press@RunDepth: **30.39 psig @ 4937.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2011.02.21**      End Date: **2011.02.22**      Last Calib.: **2011.02.22**  
Start Time: **21:37:27**      End Time: **05:23:21**      Time On Btm: **2011.02.21 @ 23:58:22**  
Time Off Btm: **2011.02.22 @ 02:38:22**

TEST COMMENT: IF:Weak blow . 1/2 2 1/2".  
IS:No blow.  
FF:Weak blow . 1/2 - 1 1/2".  
FS:No blow.



## PRESSURE SUMMARY

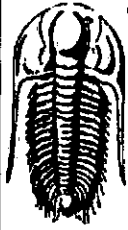
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2427.08	112.41	Initial Hydro-static
1	19.90	111.69	Open To Flow (1)
32	23.00	112.60	Shut-In(1)
79	89.36	113.96	End Shut-In(1)
80	20.07	114.00	Open To Flow (2)
105	30.39	114.90	Shut-In(2)
159	106.78	116.18	End Shut-In(2)
160	2401.55	117.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GCM/w few o specs 15%g 85%m	0.10
0.00	105 ft.of GIP	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

Chieftain Oil Co. Inc.

**Newton #2**

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**18-33s-10w Barber KS**

Job Ticket: 041608

**DST#: 1**

ATTN: Bob Stolze

Test Start: 2011.02.21 @ 21:37:22

## Tool Information

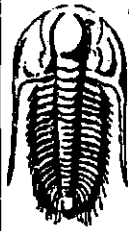
Drill Pipe:	Length: 4769.00 ft	Diameter: 3.80 inches	Volume: 66.90 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 73000.00 lb
		<u>Total Volume:</u>	<u>67.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4936.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4909.00	
Shut in tool	5.00			4914.00	
HMV	5.00			4919.00	
Jars	5.00			4924.00	
Safety Joint	3.00			4927.00	
Packer	4.00			4931.00	28.00 Bottom Of Top Packer
Packer	5.00			4936.00	
Stubb	1.00			4937.00	
Recorder	0.00	8167	Inside	4937.00	
Recorder	0.00	8370	Outside	4937.00	
Perforations	23.00			4960.00	
Bullnose	5.00			4965.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



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**FLUID SUMMARY**

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ATTN: Bob Stolze

Test Start: 2011.02.21 @ 21:37:22

**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:

3100 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
20.00	GCM/w few o specs 15%g 85%m	0.098
0.00	105 ft.of GIP	0.000

Total Length: 20.00 ft    Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

