

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

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846+0399

ATTN: Jim M.

**13/21/25**

**Miner C 5-13**

Start Date: 2010.08.22 @ 13:30:00

End Date: 2010.08.22 @ 21:10:00

Job Ticket #: 39346                      DST #: 1

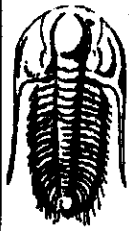
**KCC**  
**OCT 26 2010**  
**CONFIDENTIAL**

**RECEIVED**

**OCT 26 2010**

**KCC WICHITA**

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
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**Miner C 5-13**

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**13/21/25**

Job Ticket: 39346

**DST#: 1**

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Test Start: 2010.08.22 @ 13:30:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:23:00

Time Test Ended: 21:10:00

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **4406.00 ft (KB) To 4492.00 ft (KB) (TVD)**

Total Depth: **4492.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2366.00 ft (KB)**

**2355.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 6772**

**Inside**

Press@RunDepth: **294.02 psig @ 4472.00 ft (KB)**

Start Date: **2010.08.22**

End Date:

**2010.08.22**

Start Time: **13:30:05**

End Time:

**21:09:59**

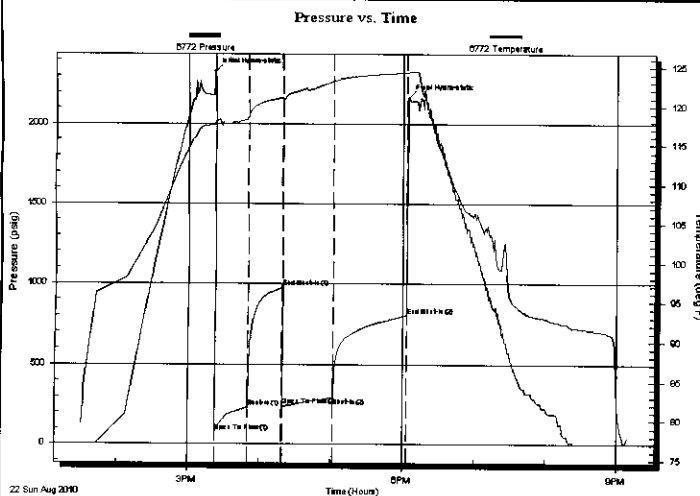
Capacity: **8000.00 psig**

Last Calib.: **2010.08.22**

Time On Btm: **2010.08.22 @ 15:22:00**

Time Off Btm: **2010.08.22 @ 18:04:20**

**TEST COMMENT:** IF- Good blow BOB 10min.  
IS- Weak surface blow.  
FF- Good blow BOB 15min.  
FS- Weak surface blow.



## PRESSURE SUMMARY

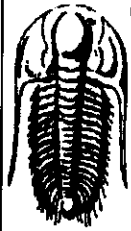
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.26	117.94	Initial Hydro-static
1	76.71	117.85	Open To Flow (1)
29	233.37	118.92	Shut-In(1)
57	971.97	121.11	End Shut-In(1)
58	242.71	120.91	Open To Flow (2)
100	294.02	123.16	Shut-In(2)
162	801.32	124.27	End Shut-In(2)
163	2160.11	124.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
530.00	20%gas 30%mud 50%oil	4.64

## Gas Rates

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



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**TOOL DIAGRAM**

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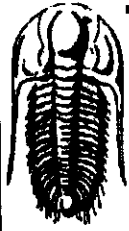
**Tool Information**

Drill Pipe:	Length: 4099.00 ft	Diameter: 3.80 inches	Volume: 57.50 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: 307.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 59.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4406.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	106.00 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			4387.00	
Shut In Tool	5.00			4392.00	
Hydraulic tool	5.00			4397.00	
Packer	5.00			4402.00	20.00      Bottom Of Top Packer
Packer	4.00			4406.00	
Stubb	1.00			4407.00	
Perforations	1.00			4408.00	
Change Over Sub	1.00			4409.00	
Drill Pipe	62.00			4471.00	
Change Over Sub	1.00			4472.00	
Recorder	0.00	8355	Inside	4472.00	
Recorder	0.00	6772	Inside	4472.00	
Perforations	17.00			4489.00	
Bullnose	3.00			4492.00	86.00      Bottom Packers & Anchor

**Total Tool Length: 106.00**



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**FLUID SUMMARY**

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**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
530.00	20%gas 30%mud 50%oil	4.638

Total Length: 530.00 ft      Total Volume: 4.638 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 40 @ 80dec. =39 gravity

