



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd  
PO Box 399  
Garden City KS 67846

ATTN: Kurt Talbott

### **Michael #1-10**

#### **10-18s-10w Rice KS**

Start Date: 2014.10.08 @ 01:07:30

End Date: 2014.10.08 @ 08:21:00

Job Ticket #: 60522                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc

**10-18s-10w Rice KS**

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**DST#: 1**

Test Start: 2014.10.08 @ 01:07:30

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:50:40

Time Test Ended: 08:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

**Interval: 3207.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Reference Elevations: 1787.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1779.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 625.25 psig @ 3212.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.08

End Date:

2014.10.08

Last Calib.:

2014.10.08

Start Time: 01:07:31

End Time:

08:21:00

Time On Btm:

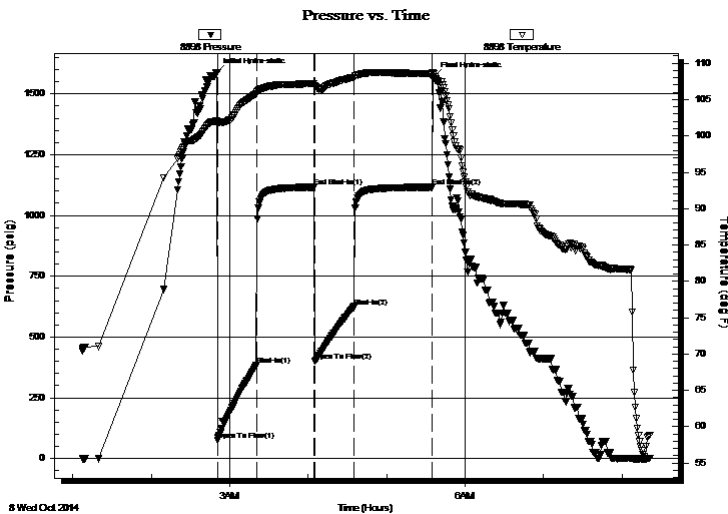
2014.10.08 @ 02:50:10

Time Off Btm:

2014.10.08 @ 05:36:00

**TEST COMMENT:** 30-B.O.B. in 1 min  
45-Dead no blow back  
30-B.O.B. in 2 mins  
60-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1588.32	102.05	Initial Hydro-static
1	74.75	101.77	Open To Flow (1)
31	383.23	105.78	Shut-In(1)
75	1116.41	107.19	End Shut-In(1)
75	399.99	106.96	Open To Flow (2)
105	625.25	108.08	Shut-In(2)
165	1116.51	108.54	End Shut-In(2)
166	1570.88	108.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1223.00	GO 35%G 65%O	17.16
186.00	SMCGO 10%M 30%G 60%O	2.61
186.00	MCGO 30%M 20%G 50%O	2.61

## Gas Rates

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





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**TOOL DIAGRAM**

American Warrior Inc

**10-18s-10w Rice KS**

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Job Ticket: 60522

**DST#: 1**

Test Start: 2014.10.08 @ 01:07:30

## Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 44.79 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3207.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3192.00	
Hydraulic tool	5.00			3197.00	
Packer	5.00			3202.00	20.00 Bottom Of Top Packer
Packer	5.00			3207.00	
Stubb	1.00			3208.00	
Perforations	4.00			3212.00	
Recorder	0.00	8897	Inside	3212.00	
Recorder	0.00	8898	Outside	3212.00	
Change Over Sub	1.00			3213.00	
Drill Pipe	63.00			3276.00	
Change Over Sub	1.00			3277.00	
Bullnose	3.00			3280.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



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**FLUID SUMMARY**

American Warrior Inc

**10-18s-10w Rice KS**

3118 Cummings Rd  
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Garden City KS 67846  
ATTN: Kurt Talbott

**Michael #1-10**

Job Ticket: 60522

**DST#: 1**

Test Start: 2014.10.08 @ 01:07:30

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 28 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1223.00	GO 35%G 65%O	17.155
186.00	SMCGO 10%M 30%G 60%O	2.609
186.00	MCGO 30%M 20%G 50%O	2.609

Total Length: 1595.00 ft      Total Volume: 22.373 bbl

Num Fluid Samples: 0

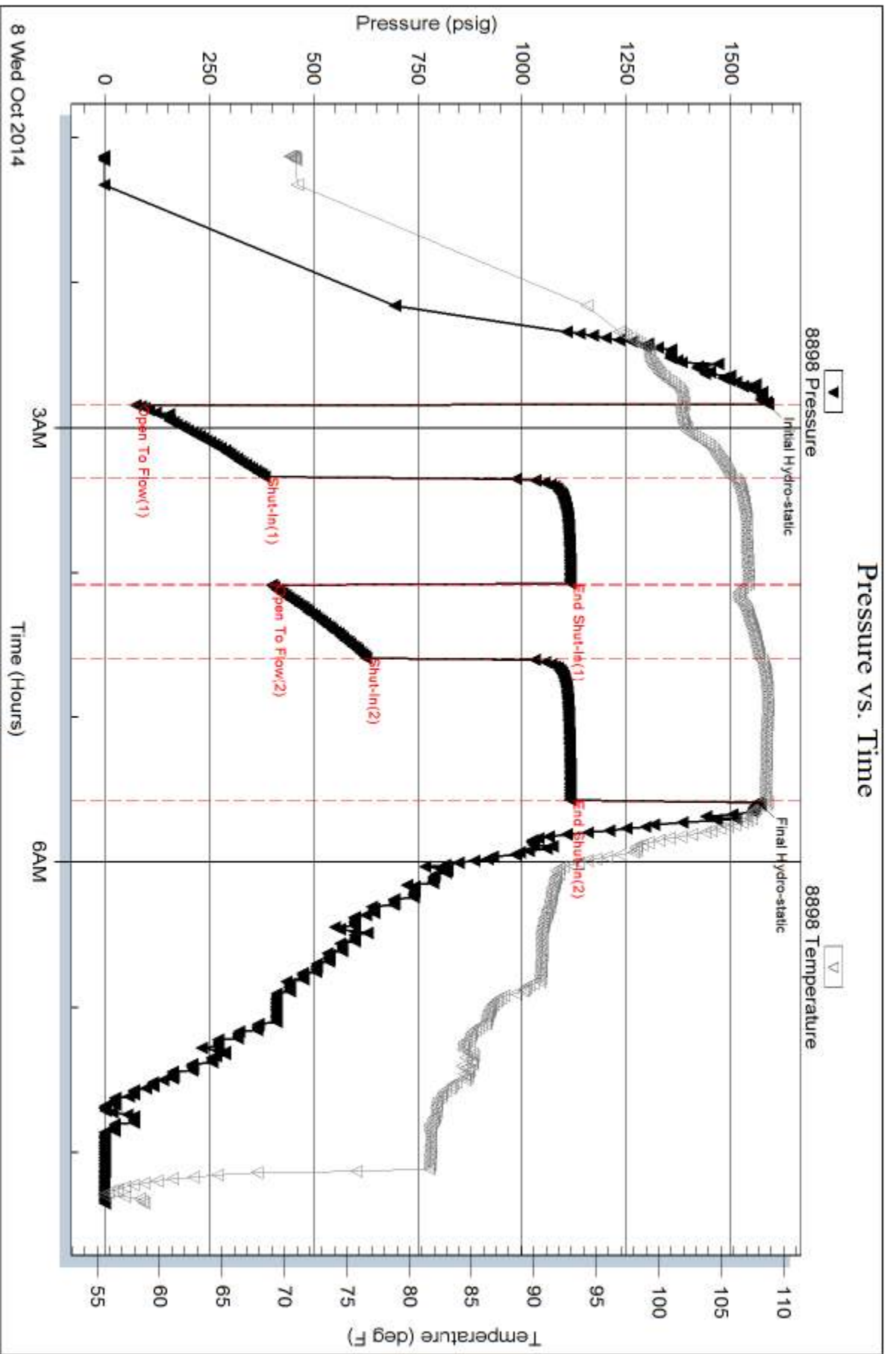
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



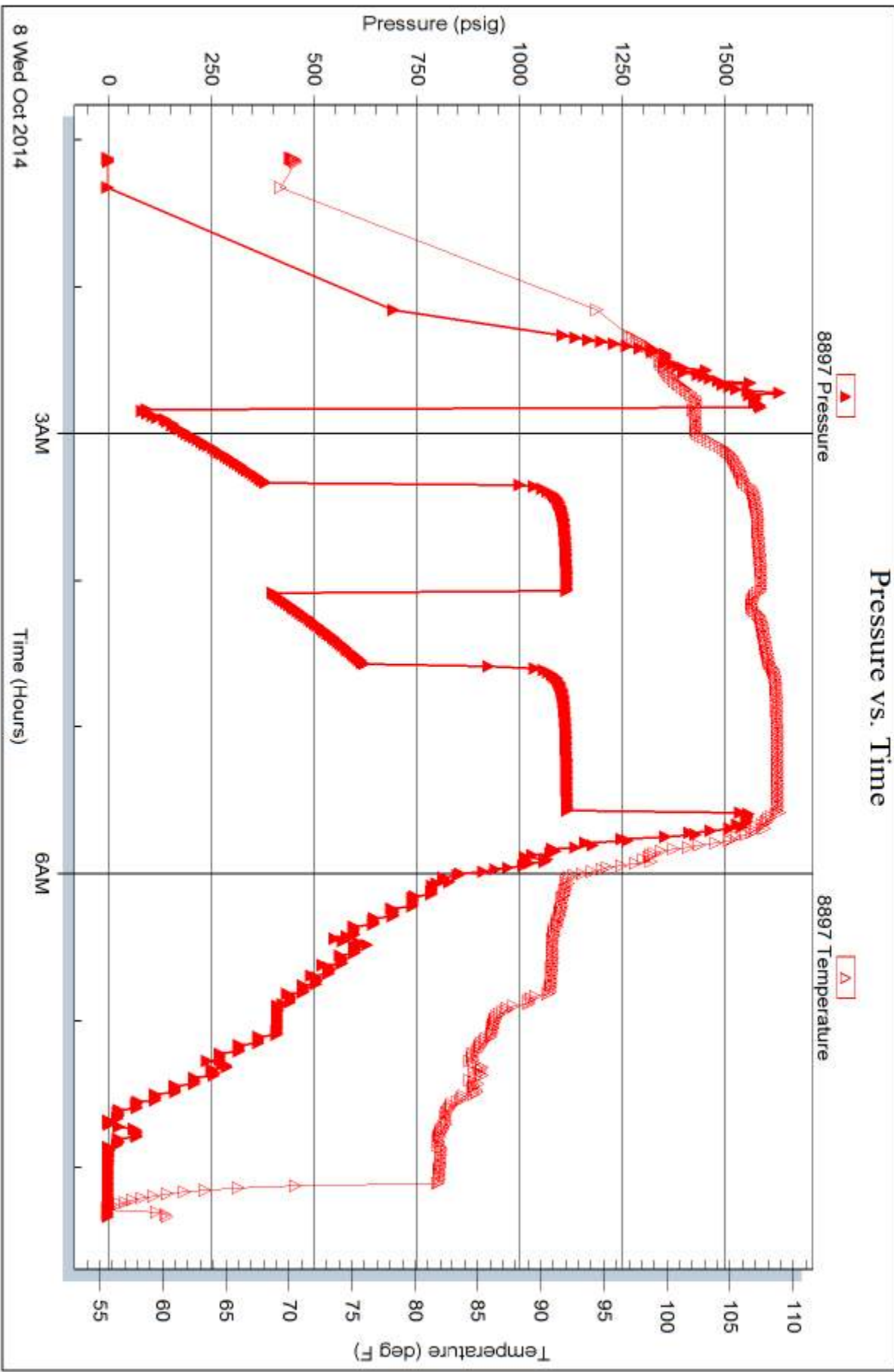
Serial #: 8897

Inside

American Warrior Inc

Michael #1-10

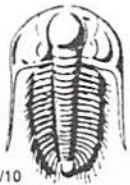
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60522

Printed: 2014.10.16 @ 11:05:23



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60522

4/10

Well Name & No. Michael # 1-10 Test No. 1 Date 10-7-14  
 Company American Warrior Inc Elevation 1787 KB 1779 GL  
 Address 3118 Cummins Rd. PO Box 399 Garden City MS 67846  
 Co. Rep / Geo. Kurt Rig Dulle  
 Location: Sec. 10 Twp. 18S Rge. 10W Co. Rice State KS

Interval Tested 3207 3280 Zone Tested Arbuckle  
 Anchor Length 73 Drill Pipe Run 3193 Mud Wt. 9.3  
 Top Packer Depth 3202 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3207 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3280 Chlorides 3500 ppm System LCM 0#

Blow Description B.O.B. TV 1 min  
Dead no blow back  
B.O.B. TV 2 mins  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1223</u>	Feet of <u>60</u>	<u>35</u> %gas	<u>65</u> %oil	%water	%mud
Rec <u>186</u>	Feet of <u>SMCGO</u>	<u>30</u> %gas	<u>50</u> %oil	%water	<u>10</u> %mud
Rec <u>186</u>	Feet of <u>SMCGO</u>	<u>20</u> %gas	<u>50</u> %oil	%water	<u>30</u> %mud

Rec Total 1595 BHT 108 Gravity 28 API RW @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1588  Test 1150 T-On Location 22:50  
 (B) First Initial Flow 75  Jars \_\_\_\_\_ T-Started 01:07  
 (C) First Final Flow 383  Safety Joint \_\_\_\_\_ T-Open 02:49  
 (D) Initial Shut-In 1116  Circ Sub \_\_\_\_\_ T-Pulled 05:34  
 (E) Second Initial Flow 400  Hourly Standby \_\_\_\_\_ T-Out 08:21  
 (F) Second Final Flow 625  Mileage 146.147 54rt  
 (G) Final Shut-In 1117  Sampler \_\_\_\_\_ 83.70  
 (H) Final Hydrostatic 1571  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1233.70  
 Sub Total 1233.70 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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