



## DRILL STEM TEST REPORT

Prepared For: **American Warrior , Inc**

PO Box 399  
Garden City, Ks 67846

ATTN: Cecil O'Brate Jason

### **PfannenstielUnit1-30**

#### **Pfannenstiel Unit #1-30**

Start Date: 2016.06.15 @ 22:30:34

End Date: 2016.06.16 @ 04:46:13

Job Ticket #: 65468                      DST #: 1

Trilobite Testing, Inc  
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American Warrior , Inc

Pfannenstiel Unit #1-30

PfannenstielUnit1-30

DST # 1

Arbuckle

2016.06.15



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# DRILL STEM TEST REPORT

American Warrior, Inc

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PO Box 399  
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**Pfannenstiel Unit 1-30**

Job Ticket: 65468 **DST#: 1**

ATTN: Cecil O'Brate Jason

Test Start: 2016.06.15 @ 22:30:34

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:39:14  
 Time Test Ended: 04:46:13  
 Interval: **3805.00 ft (KB) To 3867.00 ft (KB) (TVD)**  
 Total Depth: 3867.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2197.00 ft (KB)  
 2189.00 ft (CF)  
 KB to GR/CF: 8.00 ft

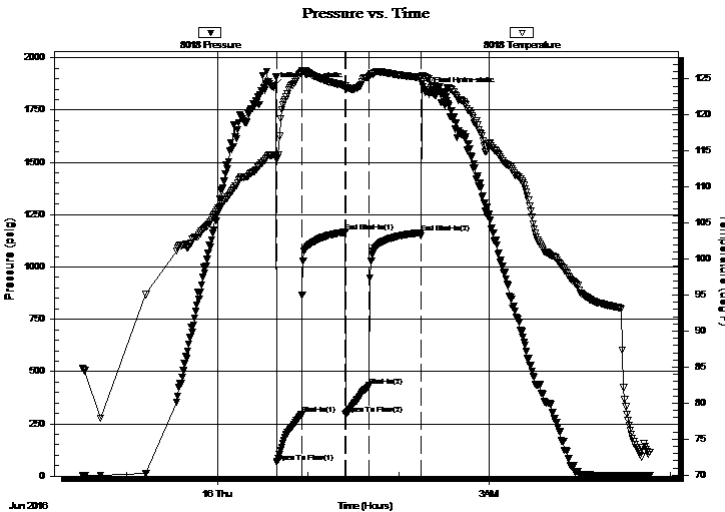
## Serial #: 8018

Inside

Press@RunDepth: 432.09 psig @ 3811.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.06.15 End Date: 2016.06.16 Last Calib.: 2016.06.16  
 Start Time: 22:30:34 End Time: 04:46:13 Time On Btm: 2016.06.16 @ 00:36:59  
 Time Off Btm: 2016.06.16 @ 02:18:29

TEST COMMENT: 15-IFP-w k to strg in 3 min  
 30-ISIP-no bl  
 15-FFP-w k to strg in 7 min  
 30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.61	114.45	Initial Hydro-static
3	66.75	113.75	Open To Flow (1)
19	293.69	125.84	Shut-In(1)
48	1166.80	124.10	End Shut-In(1)
48	296.00	123.54	Open To Flow (2)
64	432.09	125.26	Shut-In(2)
98	1163.96	125.20	End Shut-In(2)
102	1838.25	125.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	1.32
624.00	SOCW 1%O99%W	7.89
90.00	SOCMW 2%O40%M58%W	1.26

\* Recovery from multiple tests

## Gas Rates

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





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TESTING, INC**

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**TOOL DIAGRAM**

American Warrior, Inc

**Pfannenstiel Unit #1-30**

PO Box 399  
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**Pfannenstiel Unit 1-30**

Job Ticket: 65468

**DST#: 1**

ATTN: Cecil O'Brate Jason

Test Start: 2016.06.15 @ 22:30:34

## Tool Information

Drill Pipe:	Length: 3504.00 ft	Diameter: 3.80 inches	Volume: 49.15 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.70 inches	Volume: 2.20 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3805.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3785.00	
Shut In Tool	5.00			3790.00	
Hydraulic tool	5.00			3795.00	
Packer	5.00			3800.00	21.00 Bottom Of Top Packer
Packer	5.00			3805.00	
Stubb	1.00			3806.00	
Perforations	5.00			3811.00	
Recorder	0.00	8018	Inside	3811.00	
Recorder	0.00	8700	Outside	3811.00	
Blank Spacing	33.00			3844.00	
Perforations	20.00			3864.00	
Bullnose	3.00			3867.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



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**FLUID SUMMARY**

American Warrior, Inc

**Pfannenstiel Unit #1-30**

PO Box 399  
Garden City, Ks 67846

**Pfannenstiel Unit 1-30**

Job Ticket: 65468      **DST#: 1**

ATTN: Cecil O'Brate Jason

Test Start: 2016.06.15 @ 22:30:34

## 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:	24000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water	1.317
624.00	SOCW 1%O99%W	7.892
90.00	SOCMW 2%O40%M58%W	1.262

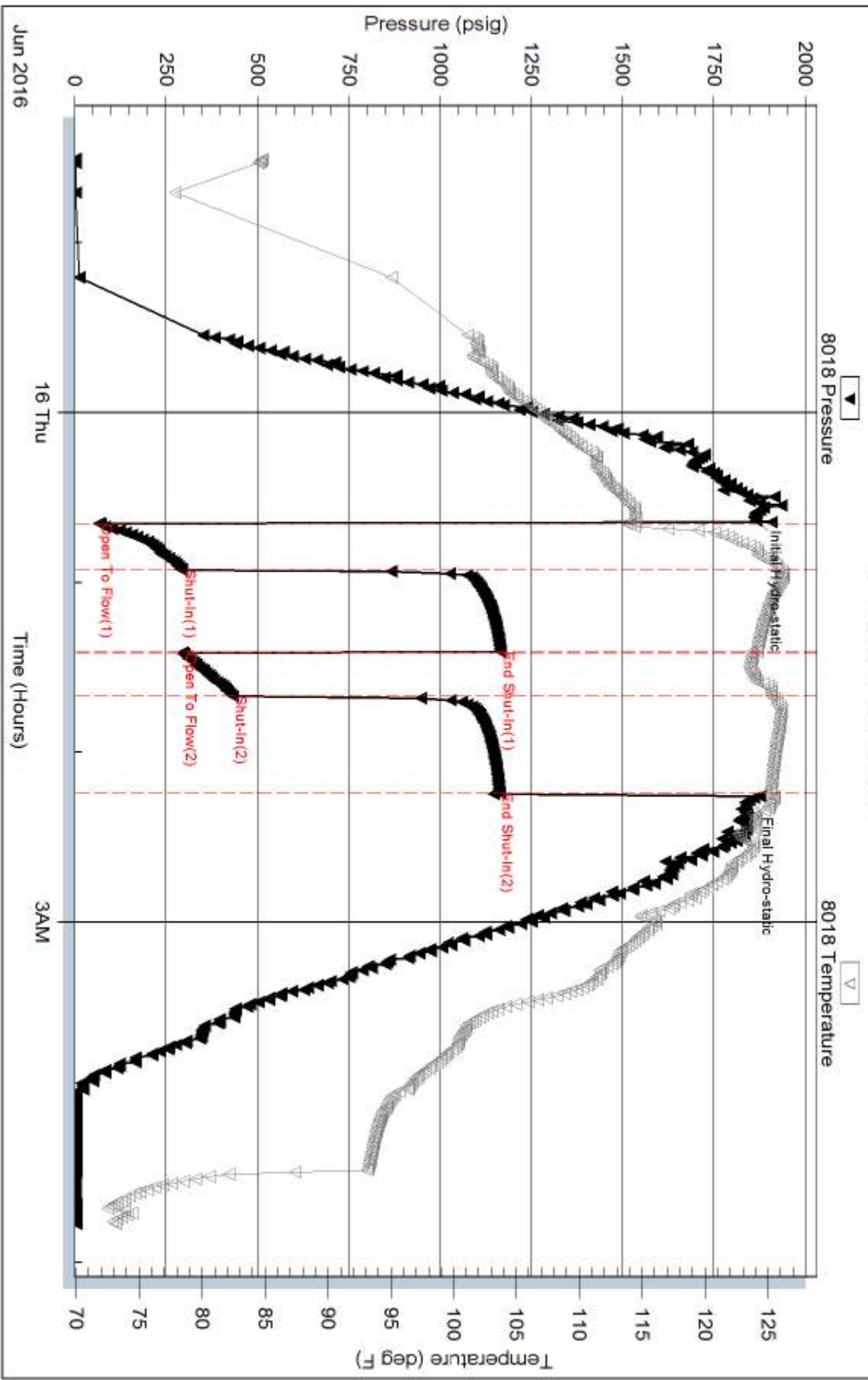
Total Length: 900.00 ft      Total Volume: 10.471 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .24@71F

### Pressure vs. Time

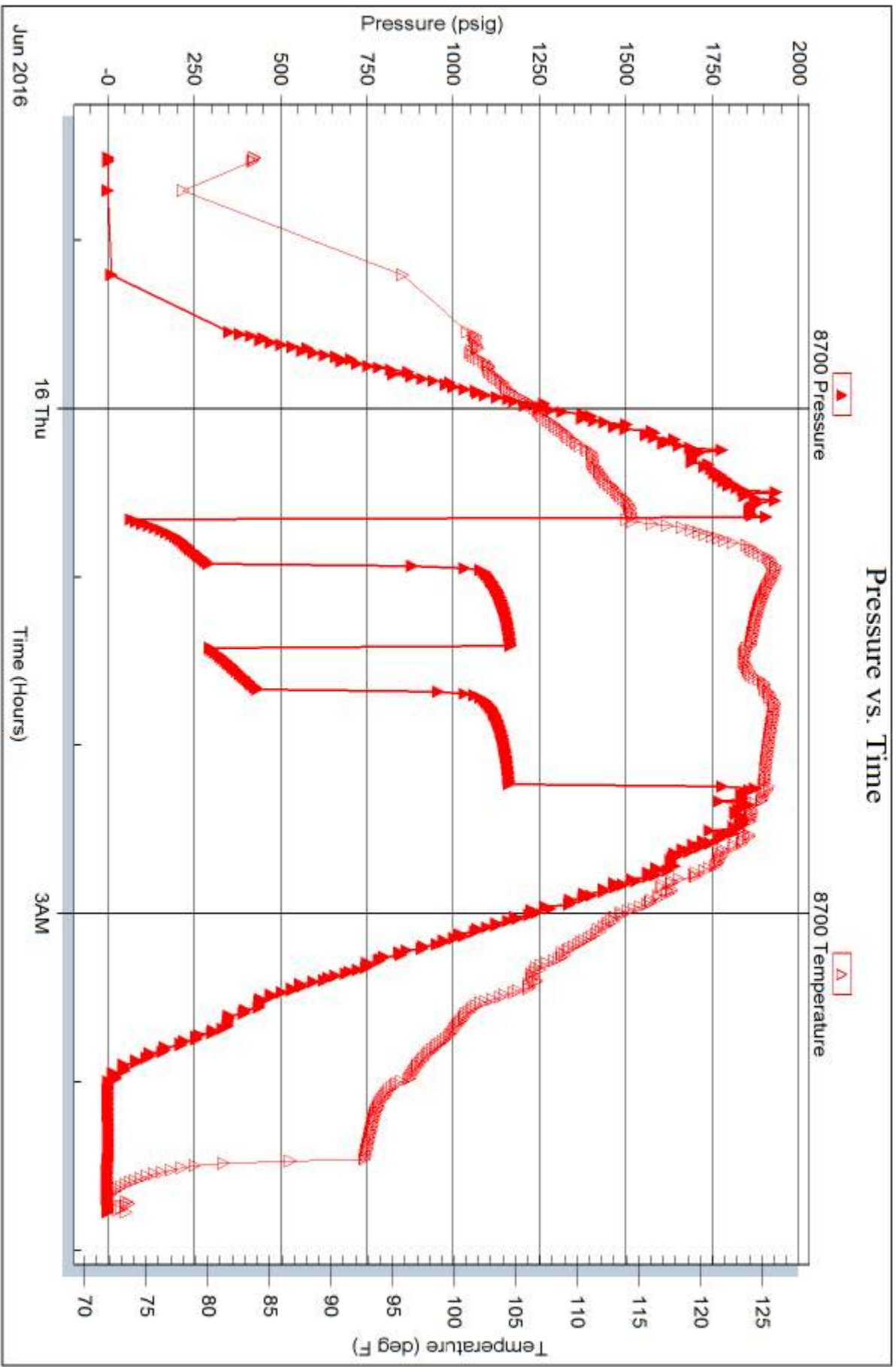


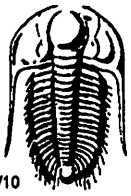
Serial #: 8700

Outside American Warrior, Inc

PfannenstielUnit1-30

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65468

Well Name & No. Pfannenstiel Unit #1-30 Test No. 1 Date 6-15-2016  
 Company AMERICAN WARRIOR Inc Elevation 2197 KB 2189 GL  
 Address PO Box 399 Garden City, Mo 67846  
 Co. Rep / Geo. JASON ALM Rig DISCOVERY rig 2  
 Location: Sec. 30 Twp. 13<sup>s</sup> Rge. 19<sup>w</sup> Co. ELLIS State Mo

Interval Tested 3805-3867 Zone Tested Arbuckle  
 Anchor Length 62 Drill Pipe Run 3504 Mud Wt. 9.3  
 Top Packer Depth 3800 Drill Collars Run - Vis 47  
 Bottom Packer Depth 3805 Wt. Pipe Run 310 WL 8.4  
 Total Depth 3867 Chlorides 2800 ppm System LCM 2 #  
 Blow Description IFP - WEAK TO STRONG IN 3 MIN  
ISIP - NO BLOW  
FFP - WEAK TO STRONG IN 7 MIN  
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>50 CMW</u>	<u>2</u>	<u>58</u>	<u>40</u>	
<u>624</u>	<u>50 CW</u>	<u>1</u>	<u>99</u>		
<u>186</u>	<u>WATER</u>				

Rec Total 900 BHT 125 Gravity - API RW .29 @ 71 °F Chlorides 24000 ppm

(A) Initial Hydrostatic 1860  Test 1050 T-On Location 1930  
 (B) First Initial Flow 66  Jars \_\_\_\_\_ T-Started 2230  
 (C) First Final Flow 293  Safety Joint \_\_\_\_\_ T-Open 0035  
 (D) Initial Shut-In 1166  Circ Sub \_\_\_\_\_ T-Pulled 0205  
 (E) Second Initial Flow 296  Hourly Standby \_\_\_\_\_ T-Out 0446  
 (F) Second Final Flow 432  Mileage 31RT 23.25  
 (G) Final Shut-In 1163  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1838  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Sub Total 1073.25

MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RAY Schwagn *thank you*

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