



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Scott Corsair, Jason

**HT #1-18**

**18-20s-20w Pawnee,KS**

Start Date: 2014.04.12 @ 05:50:39

End Date: 2014.04.12 @ 13:11:48

Job Ticket #: 54098                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.16 @ 08:26:32



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc

**18-20s-20w Pawnee, KS**

PO Box 399  
Garden City KS 67846

**HT #1-18**

Job Ticket: 54098

**DST#: 1**

ATTN: Scott Corsair, Jason

Test Start: 2014.04.12 @ 05:50:39

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:34

Time Test Ended: 13:11:48

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

**Interval: 4362.00 ft (KB) To 4372.00 ft (KB) (TVD)**

Reference Elevations: 2226.00 ft (KB)

Total Depth: 4372.00 ft (KB) (TVD)

2220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 181.48 psig @ 4363.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.12

End Date:

2014.04.12

Last Calib.:

2014.04.12

Start Time: 05:50:39

End Time:

13:11:48

Time On Btm:

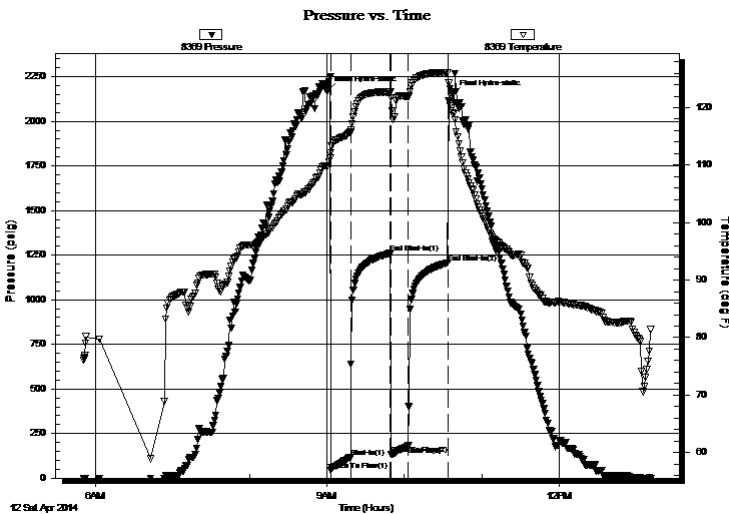
2014.04.12 @ 09:00:19

Time Off Btm:

2014.04.12 @ 10:37:33

**TEST COMMENT:** 15-IFP-strg bl in 4 min  
30-ISIP-4" bl bk  
15-FFP-strg bl in 7 min  
30-FSIP-2" bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2170.33	109.88	Initial Hydro-static
3	45.68	111.34	Open To Flow (1)
18	117.47	115.76	Shut-In(1)
49	1259.83	122.69	End Shut-In(1)
49	133.64	121.74	Open To Flow (2)
63	181.48	121.90	Shut-In(2)
94	1206.55	126.09	End Shut-In(2)
98	2149.89	119.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	475'GIP	0.00
124.00	MGO 20%G5%W20%M55%O	0.65
330.00	CO	4.63

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc

**18-20s-20w Pawnee,KS**

PO Box 399  
Garden City KS 67846

**HT #1-18**

Job Ticket: 54098

**DST#: 1**

ATTN: Scott Corsair, Jason

Test Start: 2014.04.12 @ 05:50:39

## Tool Information

Drill Pipe:	Length: 4221.00 ft	Diameter: 3.80 inches	Volume: 59.21 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 59.80 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4362.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	39.00 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			4334.00	
Shut In Tool	5.00			4339.00	
Hydraulic tool	5.00			4344.00	
Jars	5.00			4349.00	
Safety Joint	3.00			4352.00	
Packer	5.00			4357.00	29.00 Bottom Of Top Packer
Packer	5.00			4362.00	
Stubb	1.00			4363.00	
Recorder	0.00	8369	Inside	4363.00	
Recorder	0.00	8700	Outside	4363.00	
Perforations	6.00			4369.00	
Bullnose	3.00			4372.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Inc

**18-20s-20w Pawnee,KS**

PO Box 399  
Garden City KS 67846

**HT #1-18**

Job Ticket: 54098

**DST#: 1**

ATTN: Scott Corsair, Jason

Test Start: 2014.04.12 @ 05:50:39

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	475'GIP	0.000
124.00	MGO 20%G5%W20%M55%O	0.646
330.00	CO	4.629

Total Length: 454.00 ft      Total Volume: 5.275 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

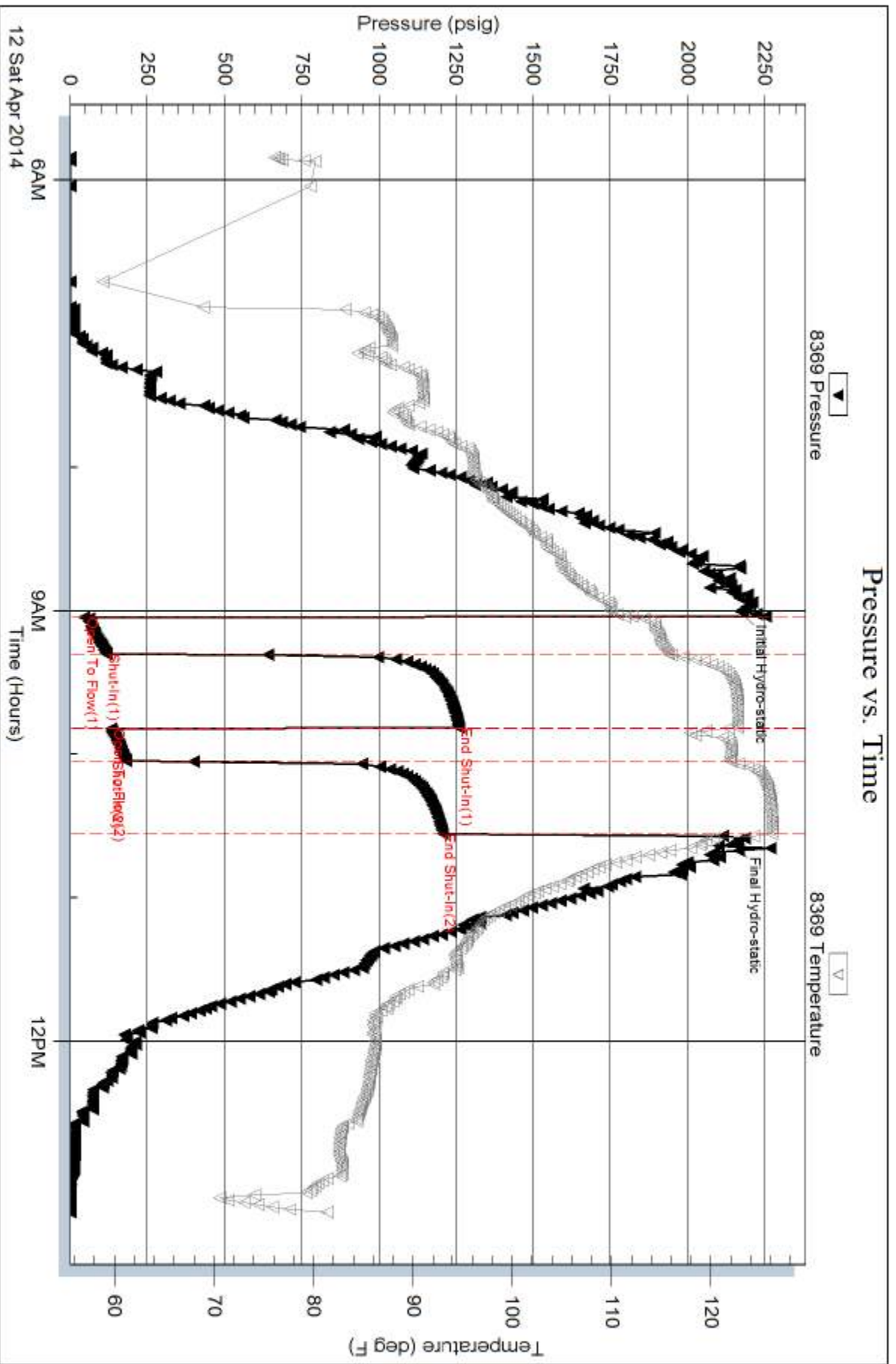
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

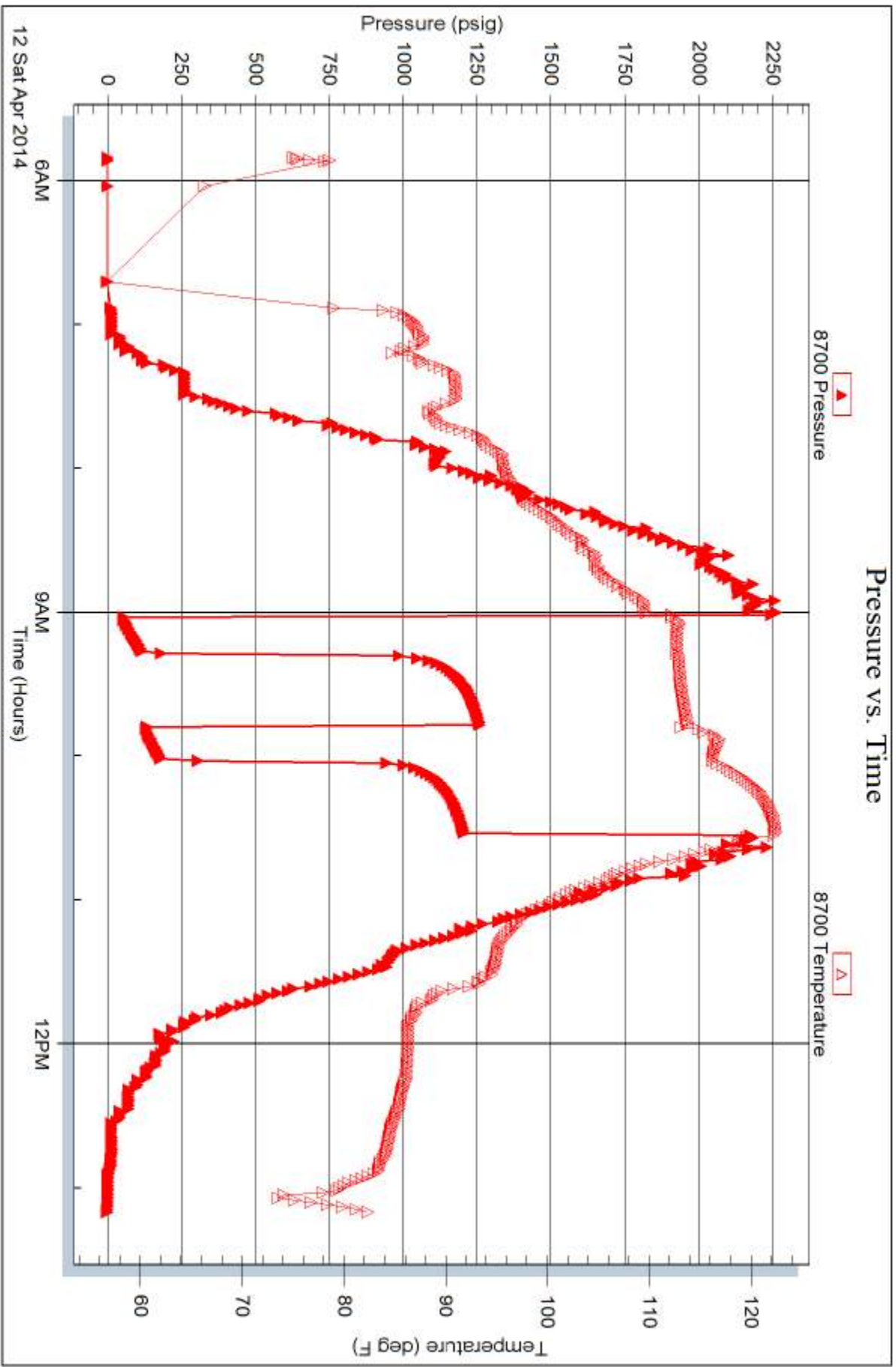


Serial #: 8700

Outside American Warrior Inc

HT #1-18

DST Test Number: 1

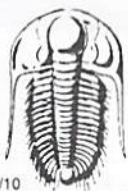


Tribble Testing, Inc

Ref. No: 54098

Printed: 2014.04.16 @ 08:26:35





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54098

Well Name & No. HT #1-18 Test No. 1 Date 4-12-84  
 Company AMERICAN WARRIOR, INC Elevation 2226 KB 2220 GL  
 Address PO Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. JASON ALM Rig PETROMARK rig 1  
 Location: Sec. 18 Twp. 20<sup>s</sup> Rge. 20<sup>w</sup> Co. PAWNEE State Ks

Interval Tested 4362-4372 Zone Tested MISS  
 Anchor Length 10 Drill Pipe Run 4221 Mud Wt. 9.2  
 Top Packer Depth 4357 Drill Collars Run 120 Vis 56  
 Bottom Packer Depth 4362 Wt. Pipe Run - WL 9.2  
 Total Depth 4372 Chlorides 6200 ppm System LCM -

Blow Description TFP - STRONG BLOW IN 4min  
TSTP - 4" Blow BACK  
FFP - STRONG BLOW IN 7min  
FSIP - 2" Blow BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>475</u>	<u>GIP</u>				
<u>124</u>	<u>MGO</u>	<u>20</u>	<u>55</u>	<u>5</u>	<u>20</u>
<u>330</u>	<u>CO</u>				

Rec Total 454 BHT 126 Gravity 39 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2170  Test 1250 T-On Location 0340  
 (B) First Initial Flow 45  Jars 250 T-Started 0550  
 (C) First Final Flow 117  Safety Joint 75 T-Open 0900  
 (D) Initial Shut-In 1259  Circ Sub T-Pulled 1030  
 (E) Second Initial Flow 133  Hourly Standby T-Out 1311  
 (F) Second Final Flow 181  Mileage 115 RT 178.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 1206  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2149  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 15  Extra Copies \_\_\_\_\_  
 Final Shut-In 30 Sub Total 0  
 Total 1753.25  
 Sub Total 1753.25 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *Thank you*

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.