



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

LN #1-18

18-19s-21w

Start Date: 2014.08.24 @ 15:00:00

End Date: 2014.08.24 @ 22:47:00

Job Ticket #: 60498 DST #: 1

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

Printed: 2014.08.25 @ 16:02:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

18-19s-21w

PO Box 399
Garden City, KS 67846

LN #1-18

Job Ticket: 60498

DST#: 1

ATTN: Jason Alm

Test Start: 2014.08.24 @ 15:00:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:00

Time Test Ended: 22:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 58

Interval: 4359.00 ft (KB) To 4367.00 ft (KB) (TVD)

Reference Elevations: 2250.00 ft (KB)

Total Depth: 4367.00 ft (KB) (TVD)

2244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: 128.90 psig @ 4363.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.24

End Date:

2014.08.24

Last Calib.:

2014.08.24

Start Time: 15:00:01

End Time:

22:47:00

Time On Btm:

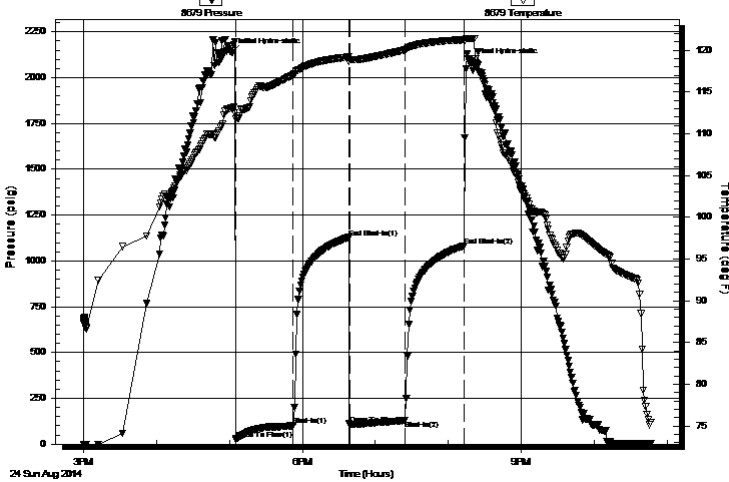
2014.08.24 @ 17:02:00

Time Off Btm:

2014.08.24 @ 20:18:00

TEST COMMENT: I.F. - 45 - BOB in 32 min
I.S.I. - 45 - No blow back
F.F. - 45 - Weak blow built to 6"
F.S.I. - 45 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.06	113.07	Initial Hydro-static
3	26.11	111.73	Open To Flow (1)
51	101.12	117.05	Shut-In(1)
96	1127.37	119.19	End Shut-In(1)
97	106.84	118.88	Open To Flow (2)
142	128.90	120.00	Shut-In(2)
191	1082.27	121.25	End Shut-In(2)
196	2080.88	121.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	S,O,C,M,W, 5%O 20%M 75%W	1.56
30.00	H,O,C,M,W, 20%O 20%M 60%W	0.42
35.00	CO 100%	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

18-19s-21w

PO Box 399
Garden City, KS 67846

LN #1-18

Job Ticket: 60498

DST#: 1

ATTN: Jason Alm

Test Start: 2014.08.24 @ 15:00:00

Tool Information

Drill Pipe:	Length: 4222.00 ft	Diameter: 3.80 inches	Volume: 59.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 59.81 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4359.00 ft			Final 62500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	35.00 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			4333.00	
Shut In Tool	5.00			4338.00	
Hydraulic tool	5.00			4343.00	
Jars	5.00			4348.00	
Safety Joint	2.00			4350.00	
Packer	4.00			4354.00	27.00 Bottom Of Top Packer
Packer	5.00			4359.00	
Stubb	1.00			4360.00	
Perforations	3.00			4363.00	
Recorder	0.00	6625	Outside	4363.00	
Recorder	0.00	8679	Inside	4363.00	
Bullnose	4.00			4367.00	8.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

18-19s-21w

PO Box 399
Garden City, KS 67846

LN #1-18

Job Ticket: 60498

DST#: 1

ATTN: Jason Alm

Test Start: 2014.08.24 @ 15:00:00

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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	S,O,C,M,W, 5%O 20%M 75%W	1.558
30.00	H,O,C,M,W, 20%O 20%M 60%W	0.421
35.00	CO 100%	0.491

Total Length: 254.00 ft Total Volume: 2.470 bbl

Num Fluid Samples: 0

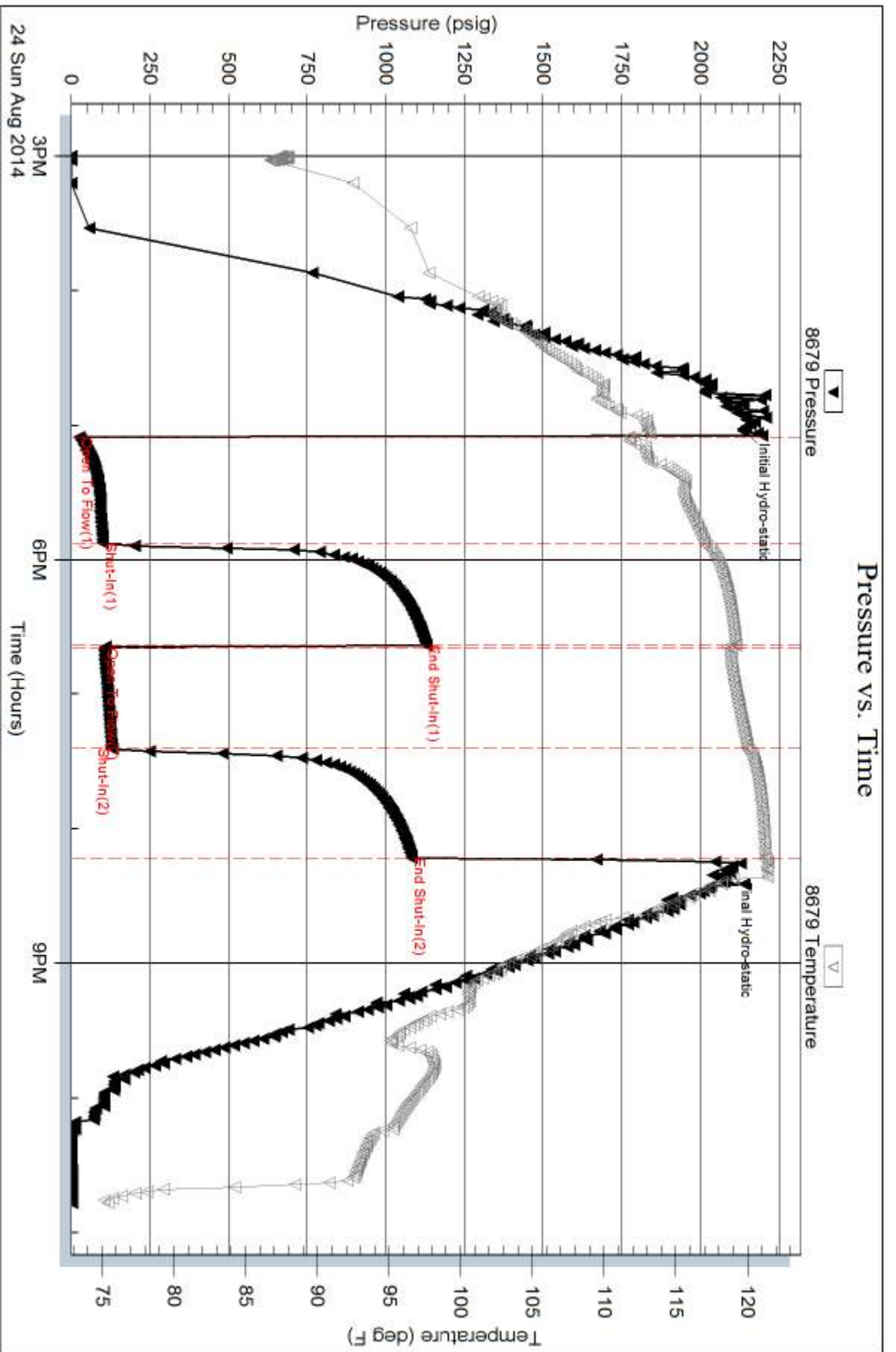
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

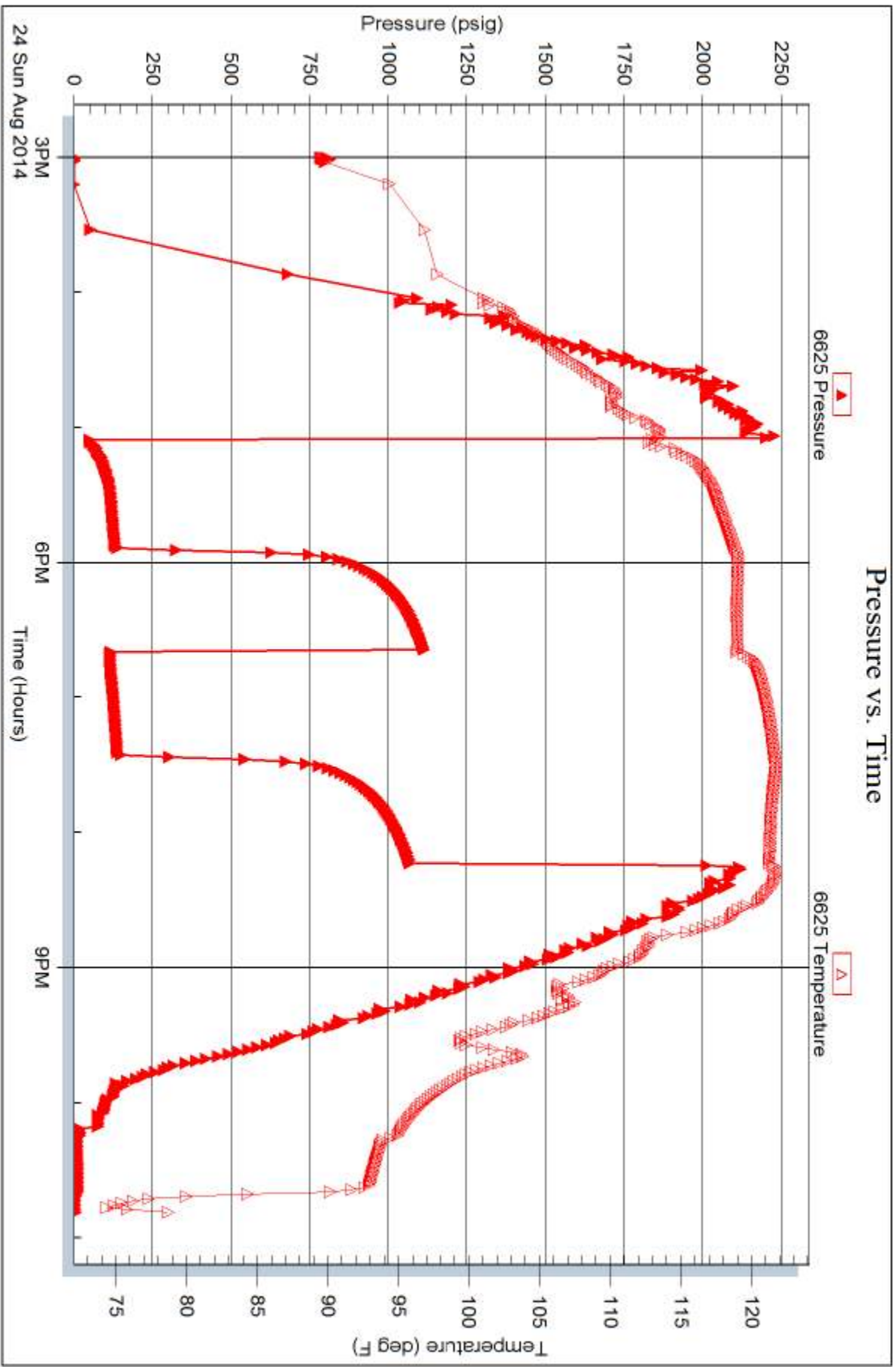


Serial #: 6625

Outside American Warrior, Inc.

LN#1-18

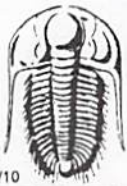
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60498

Printed: 2014.08.25 @ 16:02:48



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60498

4/10

Well Name & No. LN #1-18 Test No. 1 Date 08-24-14
 Company American Warrior INC. Elevation 2250 KB 2244 GL
 Address P.O. Box 399 Garden City KS, 67896
 Co. Rep / Geo. Jason Alm Rig Petromark #1
 Location: Sec. 18 Twp. 19 S Rge. 21 W Co. _____ State KS

Interval Tested 4359 - 4367 Zone Tested MISS.
 Anchor Length 8' Drill Pipe Run 9222 Mud Wt. 9.1
 Top Packer Depth 4354 Drill Collars Run 120 Vis 59
 Bottom Packer Depth 4359 Wt. Pipe Run _____ WL 8.8
 Total Depth 4367 Chlorides 1500 ppm System LCM 1

Blow Description T.F.-45-1/4" INT. Blow Built to (B.O.B. in 32 min.)
I.S.F.-45-No B.B.
F.F.-45-1/4" INT. Blow Built to (6" in 45 min.)
F.S.F.-45-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>C/O</u>		<u>100</u>		
<u>30</u>	<u>H.O.C.M.W</u>		<u>70</u>	<u>60</u>	<u>70</u>
<u>189</u>	<u>S.O.C.M.W</u>		<u>5</u>	<u>75</u>	<u>20</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 254 BHT 119.0 Gravity 38.6 API RW 34 @ 75.8 °F Chlorides 18000 ppm

(A) Initial Hydrostatic 2,137 Test 1250 T-On Location 14:10:00
 (B) First Initial Flow 26 Jars 250 T-Started 15:00:00
 (C) First Final Flow 101 Safety Joint 75 T-Open 17:13:00
 (D) Initial Shut-In 1,127 Circ Sub _____ T-Pulled 20:13:00
 (E) Second Initial Flow 107 Hourly Standby _____ T-Out 22:47:00
 (F) Second Final Flow 129 Mileage 112 RT 173.60 Comments _____
 (G) Final Shut-In 1,082 Sampler _____ "Thank-You"
 (H) Final Hydrostatic 2,081 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45
 Sub Total 0
 Total 1748.60
 MP/DST Disc't _____
 Sub Total 1748.60

Approved By _____ Our Representative [Signature]

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.