



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Wyatt Urban

**Handy #9-29**

**29-34s-31w-Seward,KS**

Start Date: 2014.07.13 @ 02:27:00

End Date: 2014.07.13 @ 10:40:00

Job Ticket #: 56550                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.17 @ 15:10:17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Wyatt Urban

**29-34s-31w-Seward,KS**

**Handy #9-29**

Job Ticket: 56550

**DST#: 1**

Test Start: 2014.07.13 @ 02:27:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:09:00  
 Time Test Ended: 10:40:00  
 Interval: **5277.00 ft (KB) To 5363.00 ft (KB) (TVD)**  
 Total Depth: 5363.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cornelio Landa III  
 Unit No: 48  
 Reference Elevations: 2733.00 ft (KB)  
 2720.00 ft (CF)  
 KB to GR/CF: 13.00 ft

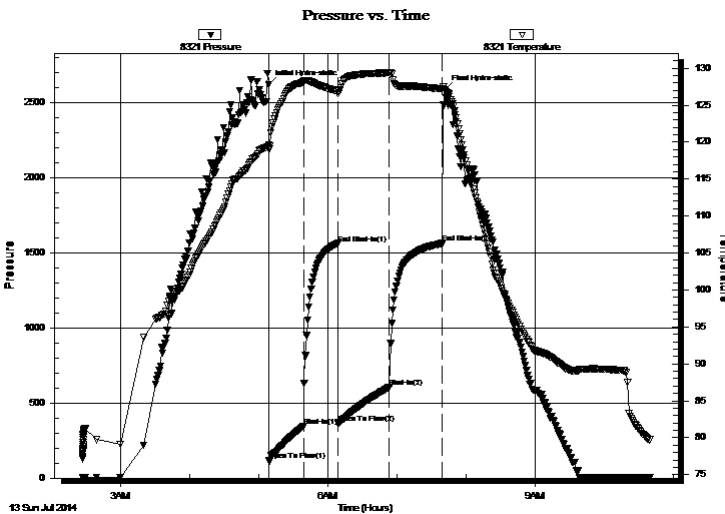
## Serial #: 8321

Inside

Press@RunDepth: 607.23 psig @ 5281.00 ft (KB)  
 Start Date: 2014.07.13 End Date: 2014.07.13  
 Start Time: 02:27:01 End Time: 10:40:00  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.07.13  
 Time On Btm: 2014.07.13 @ 05:08:30  
 Time Off Btm: 2014.07.13 @ 07:41:30

TEST COMMENT: IF: B.o.b. in 4 1/2 min.  
 IS: Bled off in 3 min.-No return  
 FF: B.o.b. in 8 min.  
 FS: Bled off in 3 min.-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2618.68	119.59	Initial Hydro-static
1	116.56	119.04	Open To Flow (1)
31	345.37	128.16	Shut-In(1)
60	1561.81	126.92	End Shut-In(1)
61	363.21	126.59	Open To Flow (2)
105	607.23	129.37	Shut-In(2)
151	1563.41	127.21	End Shut-In(2)
153	2583.94	127.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mcsw 4m 96sw	0.89
441.00	Mcsw 8m 92sw	6.19
315.00	Mcsw 20m 80sw	4.42
189.00	Mcsw 40m 60sw	2.65
126.00	Mcsw 50m 50sw	1.77

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**29-34s-31w-Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #9-29**

Job Ticket: 56550

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.07.13 @ 02:27:00

## Tool Information

Drill Pipe:	Length: 5085.00 ft	Diameter: 3.80 inches	Volume: 71.33 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 72.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5277.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	113.00 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			5251.00	
Shut In Tool	5.00			5256.00	
Hydraulic tool	5.00			5261.00	
Jars	5.00			5266.00	
Safety Joint	2.00			5268.00	
Packer	5.00			5273.00	27.00 Bottom Of Top Packer
Packer	4.00			5277.00	
Stubb	1.00			5278.00	
Perforations	2.00			5280.00	
Change Over Sub	1.00			5281.00	
Recorder	0.00	8321	Inside	5281.00	
Recorder	0.00	8372	Outside	5281.00	
Drill Pipe	63.00			5344.00	
Change Over Sub	1.00			5345.00	
Perforations	15.00			5360.00	
Bullnose	3.00			5363.00	86.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>113.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**29-34s-31w-Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #9-29**

Job Ticket: 56550

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.07.13 @ 02:27:00

## 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:

12000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	Mcsw 4m 96sw	0.885
441.00	Mcsw 8m 92sw	6.186
315.00	Mcsw 20m 80sw	4.419
189.00	Mcsw 40m 60sw	2.651
126.00	Mcsw 50m 50sw	1.767

Total Length: 1251.00 ft      Total Volume: 15.908 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

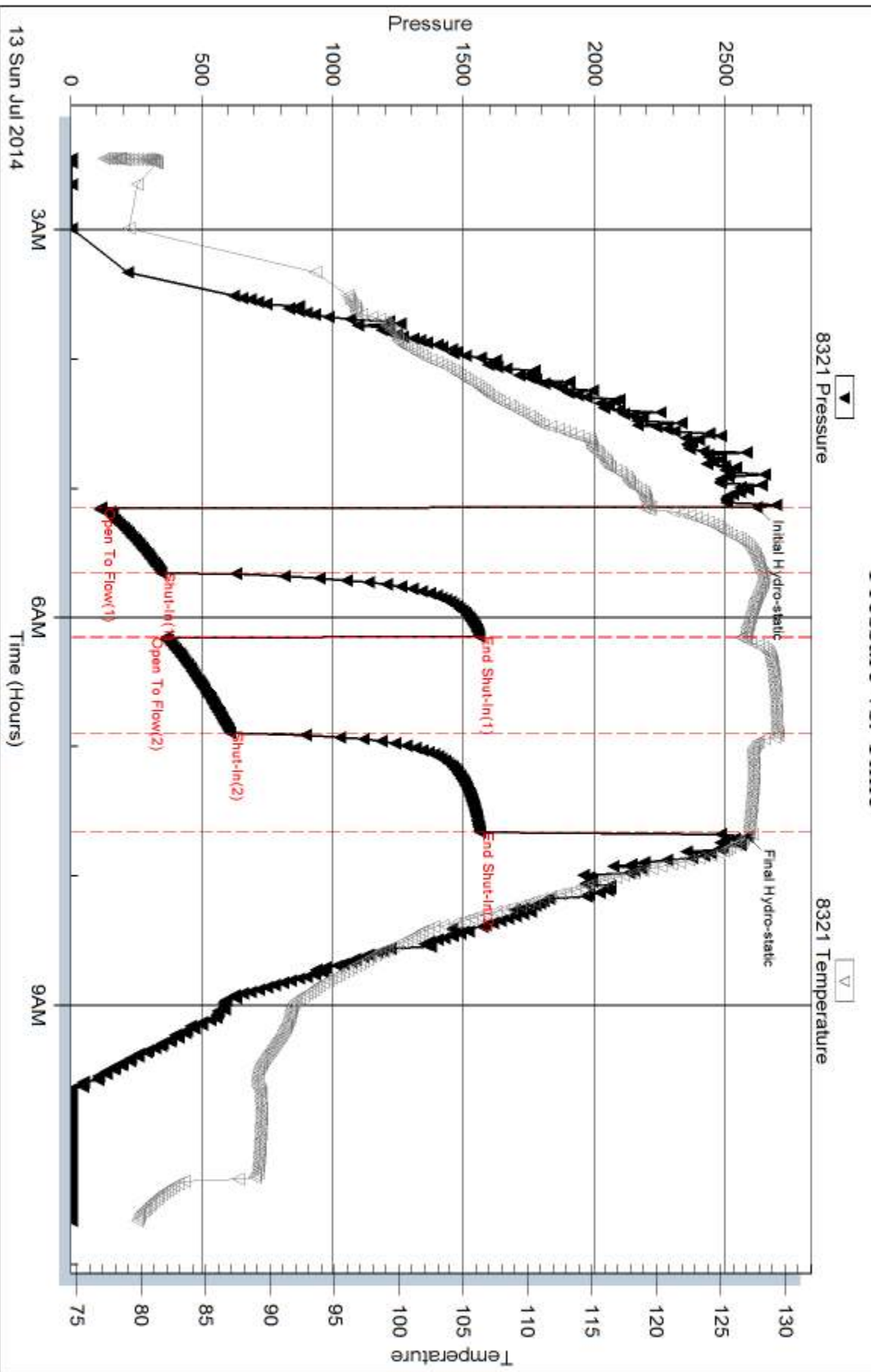
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .47@79=12,000

### Pressure vs. Time

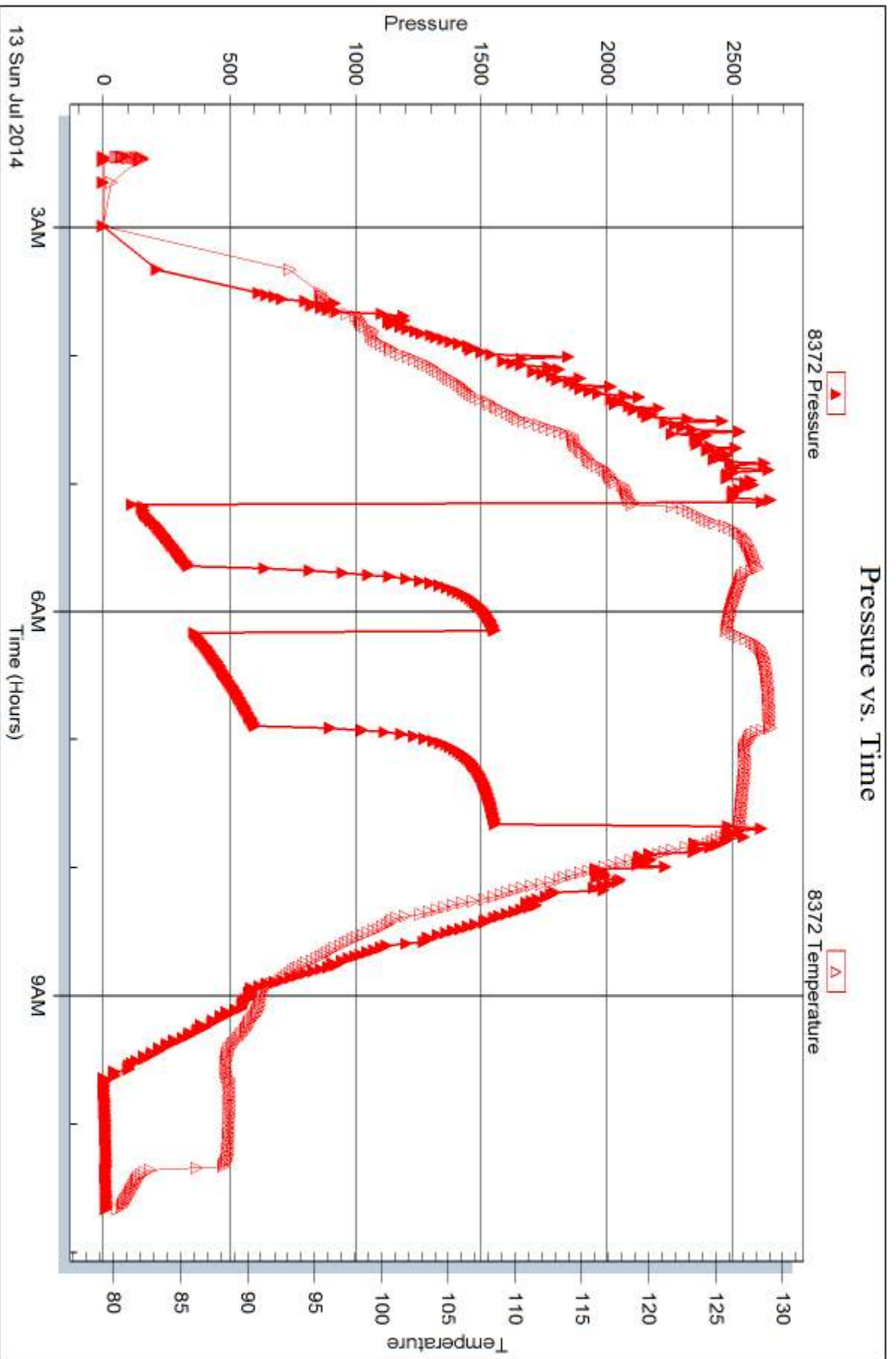


Serial #: 8372

Outside American Warrior Inc.

Handy #9-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56550

Printed: 2014.07.17 @ 15:10:18



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Wyatt Urban

**Handy #9-29**

**29-34s-31w-Seward,KS**

Start Date: 2014.07.16 @ 03:40:00

End Date: 2014.07.16 @ 11:03:00

Job Ticket #: 56551                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.17 @ 15:09:39









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**29-34s-31w-Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #9-29**

Job Ticket: 56551

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2014.07.16 @ 03:40:00

## Tool Information

Drill Pipe:	Length: 5749.00 ft	Diameter: 3.80 inches	Volume: 80.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 81.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	5925.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	125.00 ft			
Tool Length:	152.00 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			5899.00	
Shut In Tool	5.00			5904.00	
Hydraulic tool	5.00			5909.00	
Jars	5.00			5914.00	
Safety Joint	2.00			5916.00	
Packer	5.00			5921.00	27.00 Bottom Of Top Packer
Packer	4.00			5925.00	
Stubb	1.00			5926.00	
Perforations	2.00			5928.00	
Change Over Sub	1.00			5929.00	
Recorder	0.00	8321	Inside	5929.00	
Recorder	0.00	8372	Outside	5929.00	
Drill Pipe	94.00			6023.00	
Change Over Sub	1.00			6024.00	
Perforations	23.00			6047.00	
Bullnose	3.00			6050.00	125.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>152.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**29-34s-31w-Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #9-29**

Job Ticket: 56551

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2014.07.16 @ 03:40:00

## 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud 100m	0.885

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

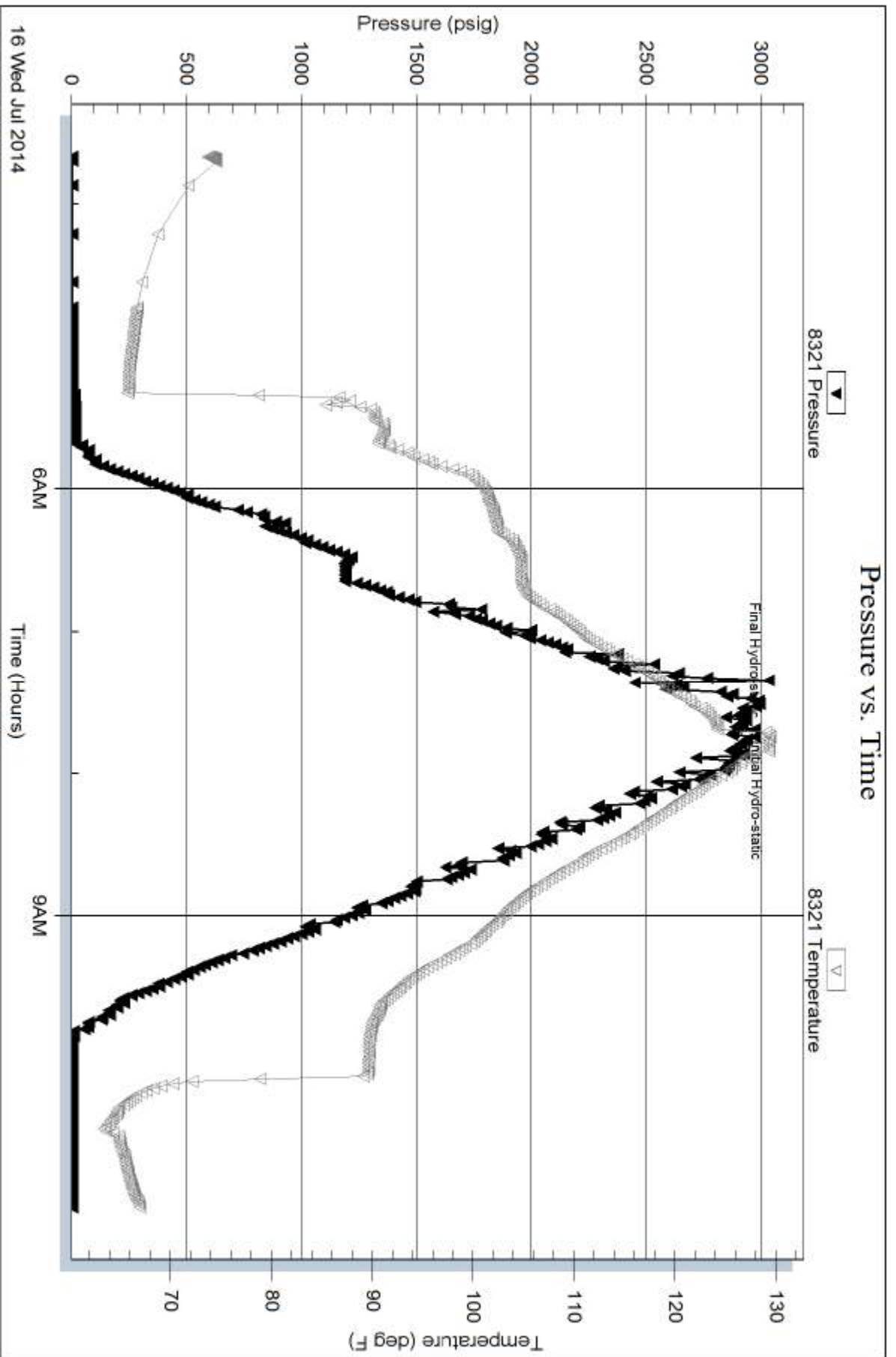
Serial #: 8321

Inside

American Warrior Inc.

Handy #9-29

DST Test Number: 2

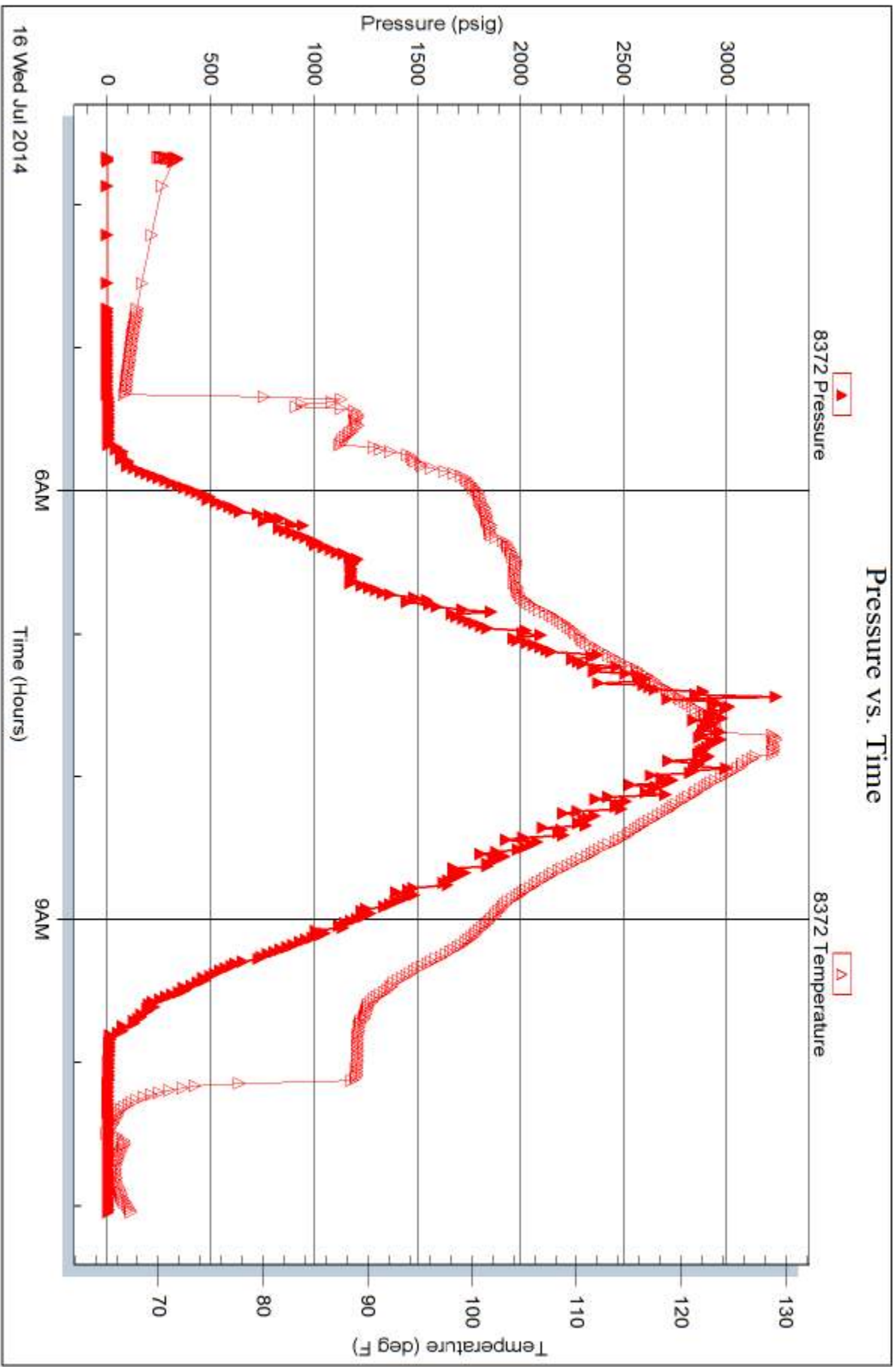


Serial #: 8372

Outside American Warrior Inc.

Handy #9-29

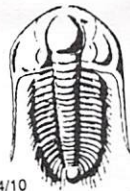
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56551

Printed: 2014.07.17 @ 15:09:41



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56550

Well Name & No. Handy #9-29 Test No. 1 Date 7-13-14  
 Company American Warrior Inc. Elevation 2733 KB 2720 GL  
 Address 3118 Cummings Rd - Garden City, KS 67846  
 Co. Rep / Geo. Wyatt Urban Rig Duke #9  
 Location: Sec. 29 Twp. 34S Rge. 31W Co. Seward State KS

Interval Tested 5277' - 5363' Zone Tested Marmaton  
 Anchor Length 86' Drill Pipe Run 5085' Mud Wt. 9.1  
 Top Packer Depth 5273' Drill Collars Run 180' Vis 47  
 Bottom Packer Depth 5277' Wt. Pipe Run Ø WL 9.2  
 Total Depth 5363' Chlorides 1800 ppm System LCM #3

Blow Description IF, Bob. in 4 1/2 min.  
ISI, Bled off in 3 min - No Return  
FF, Bob. in 8 min.  
FST, Bled off in 3 min. - No Return

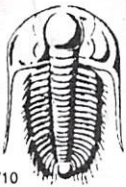
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>mcs w</u>		<u>96</u>	<u>4</u>	
<u>441</u>	<u>mcs w</u>		<u>92</u>	<u>8</u>	
<u>315</u>	<u>mcs w</u>		<u>80</u>	<u>20</u>	
<u>189</u>	<u>mcs w</u>		<u>60</u>	<u>40</u>	
<u>126</u>	<u>mcs w</u>		<u>50</u>	<u>50</u>	

Rec Total 1251 BHT 127 Gravity — API RW .47 @ 79 °F Chlorides 12,000 ppm

(A) Initial Hydrostatic 2619  Test 1350 T-On Location 01:30  
 (B) First Initial Flow 117  Jars 250 T-Started 02:27  
 (C) First Final Flow 345  Safety Joint 75 T-Open 05:09  
 (D) Initial Shut-In 1562  Circ Sub MC T-Pulled 07:39  
 (E) Second Initial Flow 363  Hourly Standby \_\_\_\_\_ T-Out 10:40  
 (F) Second Final Flow 607  Mileage 114 R-T 176.70 Comments Waited For Cat From 22:30-1:30  
 (G) Final Shut-In 1563  Sampler \_\_\_\_\_ Got stuck in sand.  
 (H) Final Hydrostatic 2584  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 45 Sub Total 0  
 Total 1851.70  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1851.70

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged or 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56551

4/10

Well Name & No. Handy #9-29 Test No. 2 Date 7-16-14  
 Company American Warrior Inc. Elevation 2733 KB 2720 GL  
 Address 3118 Cummings Rd Garden City, KS 67846  
 Co. Rep / Geo. Wyatt Urban Rig Duke #9  
 Location: Sec. 29 Twp. 34-5 Rge. 31-w Co. Seward State KS

Interval Tested 5925'-6050' Zone Tested Chester  
 Anchor Length 125' Drill Pipe Run 5749' Mud Wt. 92  
 Top Packer Depth 5921 Drill Collars Run 180 Vis 54  
 Bottom Packer Depth 5925 Wt. Pipe Run Ø WL 80  
 Total Depth 6050 Chlorides 4900 ppm System LCM #2

Blow Description IP:  
 IST: Packer Failure  
 FF:  
 PSI:

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>180</u>	Feet of <u>mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2891  Test 1250 T-On Location ~~03:40~~ 03:40  
 (B) First Initial Flow —  Jars 250 T-Started 03:40  
 (C) First Final Flow —  Safety Joint 75 T-Open —  
 (D) Initial Shut-In —  Circ Sub N/C T-Pulled —  
 (E) Second Initial Flow —  Hourly Standby 17 hrs. T-Out —  
 (F) Second Final Flow —  Mileage 176.70 Comments last test on 7-13-14  
 (G) Final Shut-In —  Sampler — @ 10:40am. was supposed  
 (H) Final Hydrostatic 2883  Straddle — to land 31' Above KB + 1 packer  
 Shale Packer — @ 31' Above KB  
 Extra Packer —  
 Extra Recorder —  
 Day Standby 2 days 17h  
 Accessibility —  
 Sub Total 1751.70

Initial Open —  
 Initial Shut-In —  
 Final Flow —  
 Final Shut-In —

Sub Total 1600  
 Total 3351.70  
 MP/DST Disc't —

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

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