



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Shank #5-11**

#### **11-20s-21w Ness,KS**

Start Date: 2015.01.31 @ 15:35:00

End Date: 2015.01.31 @ 23:38:00

Job Ticket #: 62413                      DST #: 1

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

Printed: 2015.02.02 @ 16:00:02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

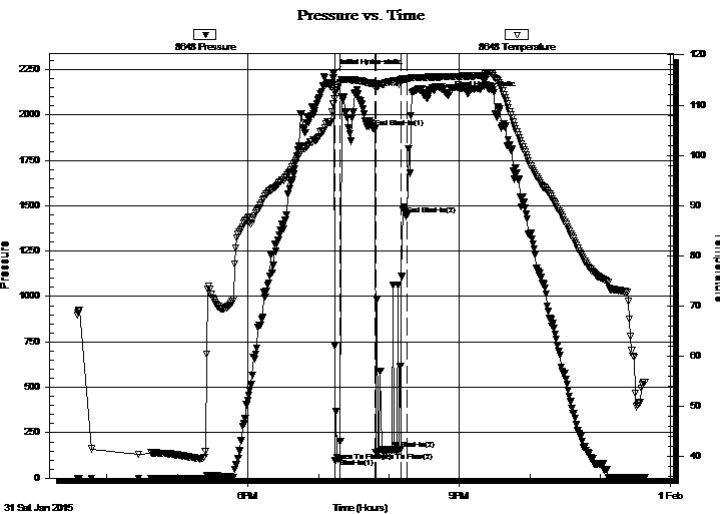
**11-20s-21w Ness, KS**  
**Shank #5-11**  
Job Ticket: 62413 **DST#: 1**  
Test Start: 2015.01.31 @ 15:35:00

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:14:30  
Time Test Ended: 23:38:00  
Interval: **4416.00 ft (KB) To 4430.00 ft (KB) (TVD)**  
Total Depth: 4430.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Cody Bloedorn  
Unit No: 73  
Reference Elevations: 2270.00 ft (KB)  
2262.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8648** **Inside**  
Press@RunDepth: 160.27 psig @ 4417.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.01.31 End Date: 2015.01.31 Last Calib.: 2015.01.31  
Start Time: 15:35:05 End Time: 23:37:59 Time On Btm: 2015.01.31 @ 19:13:00  
Time Off Btm: 2015.01.31 @ 20:50:45

**TEST COMMENT:** 05 - IF- B.O.B. in 1 minute. slid 2' Sliding throughout test  
30 - IS- No return  
45 - FF- 8 1/4" blow  
45 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.84	110.35	Initial Hydro-static
2	94.92	112.43	Open To Flow (1)
6	108.19	114.25	Shut-In(1)
36	1929.33	114.26	End Shut-In(1)
36	143.97	113.29	Open To Flow (2)
57	160.27	114.48	Shut-In(2)
63	1451.95	115.19	End Shut-In(2)
98	2107.11	115.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Mud, 100%M	3.23

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**11-20s-21w Ness, KS**  
**Shank #5-11**  
Job Ticket: 62413      **DST#: 1**  
Test Start: 2015.01.31 @ 15:35:00

**Tool Information**

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 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: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.52 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4416.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4389.00	
Shut In Tool	5.00			4394.00	
Hydraulic tool	5.00			4399.00	
Jars	5.00			4404.00	
Safety Joint	3.00			4407.00	
Packer	5.00			4412.00	28.00      Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	8648	Inside	4417.00	
Recorder	0.00	8940	Outside	4417.00	
Perforations	10.00			4427.00	
Bullnose	3.00			4430.00	14.00      Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**11-20s-21w Ness, KS**  
**Shank #5-11**  
Job Ticket: 62413      **DST#: 1**  
Test Start: 2015.01.31 @ 15:35:00

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	Mud, 100%M	3.234

Total Length: 250.00 ft      Total Volume: 3.234 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

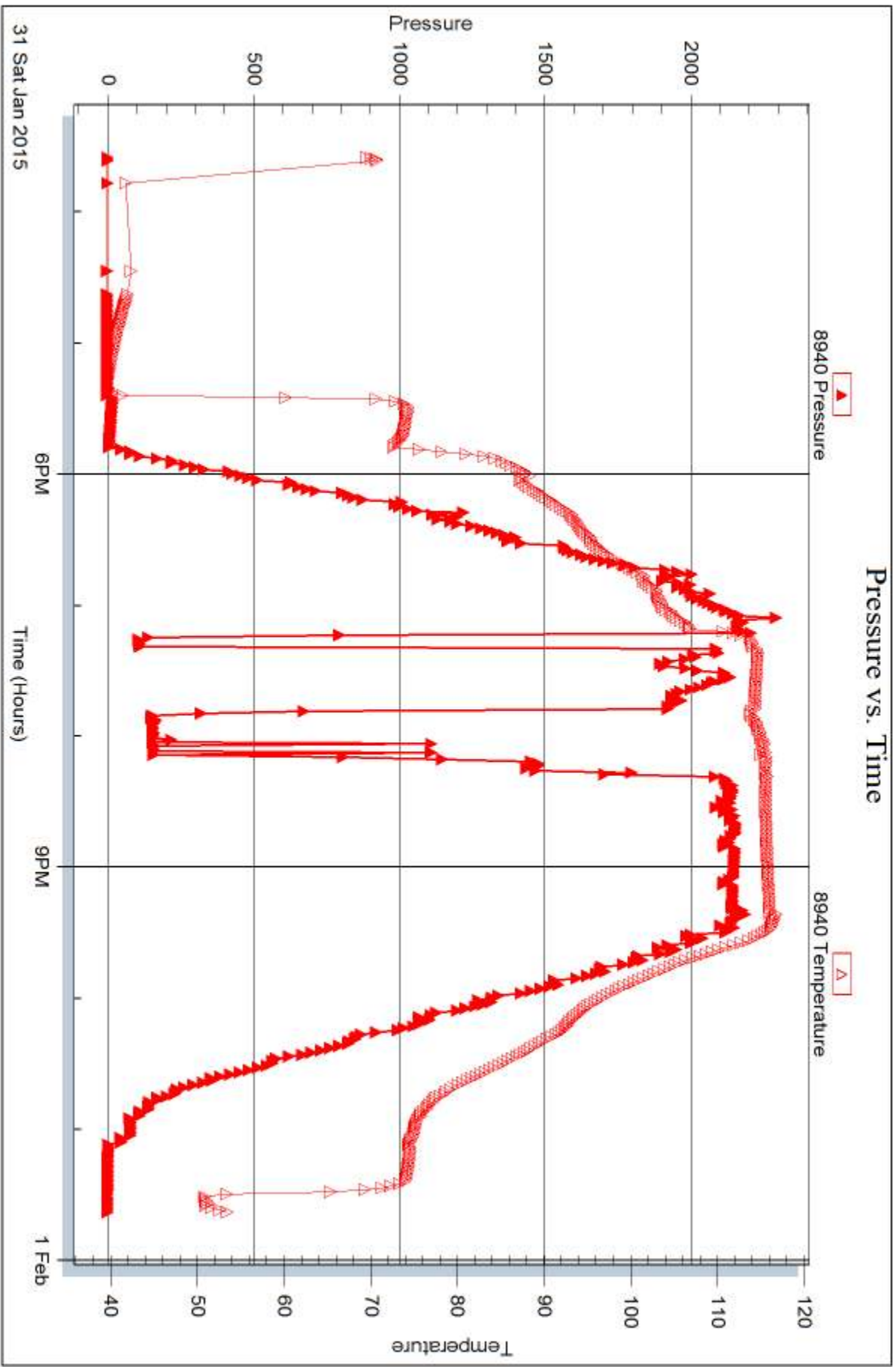


Serial #: 8940

Outside American Warrior Inc

Shank #5-11

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Shank #5-11**

#### **11-20s-21w Ness,KS**

Start Date: 2015.02.01 @ 05:24:00

End Date: 2015.02.01 @ 12:40:15

Job Ticket #: 62414                      DST #: 2

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

Printed: 2015.02.02 @ 15:59:18





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**11-20s-21w Ness, KS**  
**Shank #5-11**  
Job Ticket: 62414 **DST#: 2**  
Test Start: 2015.02.01 @ 05:24:00

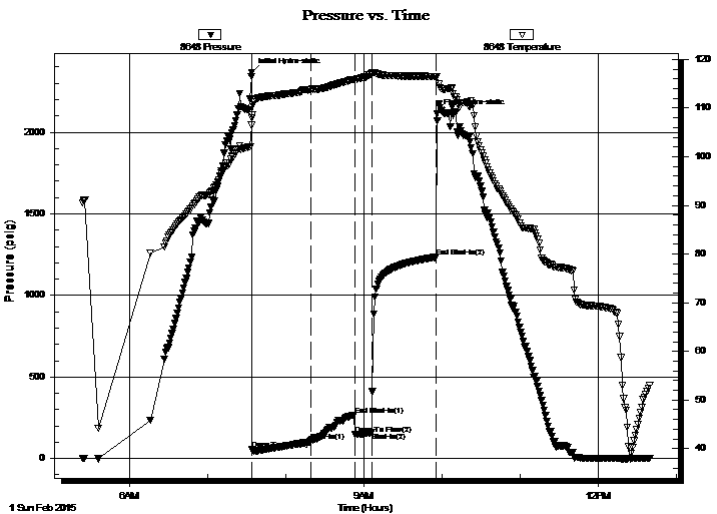
## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:34:00  
Time Test Ended: 12:40:15  
Interval: **4417.00 ft (KB) To 4430.00 ft (KB) (TVD)**  
Total Depth: 4430.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Cody Bloedorn  
Unit No: 73  
Reference Elevations: 2270.00 ft (KB)  
2262.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8648 Inside**  
Press@RunDepth: 103.18 psig @ 4418.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.02.01 End Date: 2015.02.01 Last Calib.: 2015.02.01  
Start Time: 05:24:05 End Time: 12:40:14 Time On Btm: 2015.02.01 @ 07:34:00  
Time Off Btm: 2015.02.01 @ 09:56:30

TEST COMMENT: 45 - IF- 8" blow  
30 - IS- 2" return  
15 - FF- 3" blow  
45 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.17	107.95	Initial Hydro-static
1	56.83	108.53	Open To Flow (1)
45	103.18	113.76	Shut-In(1)
79	268.44	115.92	End Shut-In(1)
80	147.18	115.86	Open To Flow (2)
93	160.02	117.05	Shut-In(2)
142	1234.88	116.51	End Shut-In(2)
143	2116.45	116.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCWM, 5%O, 45%W, 50%M	0.60
124.00	SOCMW, 5%O, 5%M, 90%W	1.74
102.00	SOCWM, 5%O, 25%W, 70%M	1.43
10.00	GO, 5%G, 95%O	0.14

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**11-20s-21w Ness,KS**  
**Shank #5-11**  
Job Ticket: 62414      **DST#: 2**  
Test Start: 2015.02.01 @ 05:24:00

**Tool Information**

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 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:	30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 61.52 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4417.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4390.00	
Shut In Tool	5.00			4395.00	
Hydraulic tool	5.00			4400.00	
Jars	5.00			4405.00	
Safety Joint	3.00			4408.00	
Packer	5.00			4413.00	28.00      Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	8648	Inside	4418.00	
Recorder	0.00	8940	Outside	4418.00	
Perforations	9.00			4427.00	
Bullnose	3.00			4430.00	13.00      Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**11-20s-21w Ness,KS**  
**Shank #5-11**  
Job Ticket: 62414      **DST#: 2**  
Test Start: 2015.02.01 @ 05:24:00

## Mud and Cushion Information

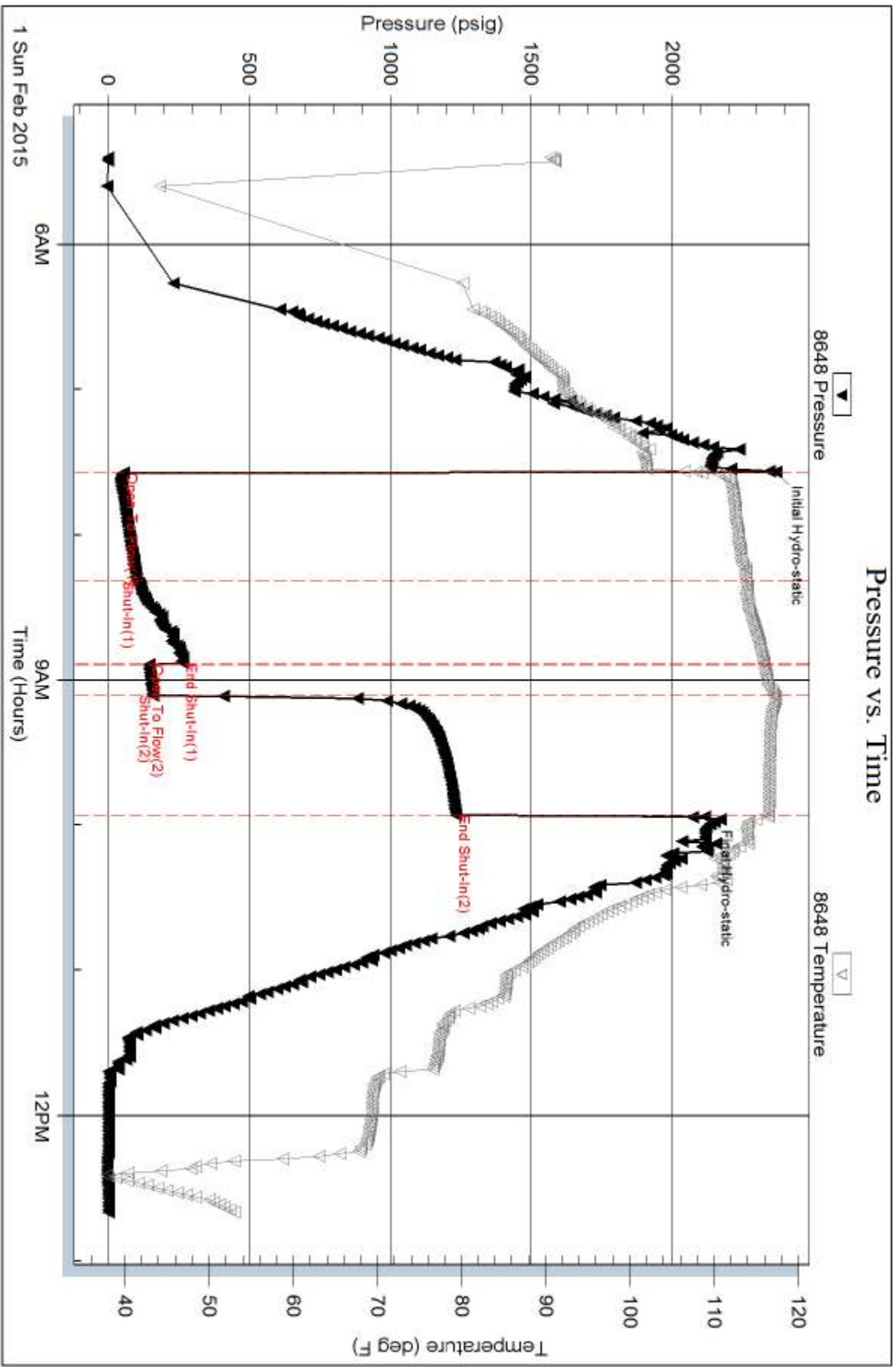
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	38000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	SOCWM, 5%O, 45%W, 50%M	0.596
124.00	SOCMW, 5%O, 5%M, 90%W	1.739
102.00	SOCWM, 5%O, 25%W, 70%M	1.431
10.00	GO, 5%G, 95%O	0.140

Total Length: 298.00 ft      Total Volume: 3.906 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .26 @ 50 Degrees = 38,000 Chlorides

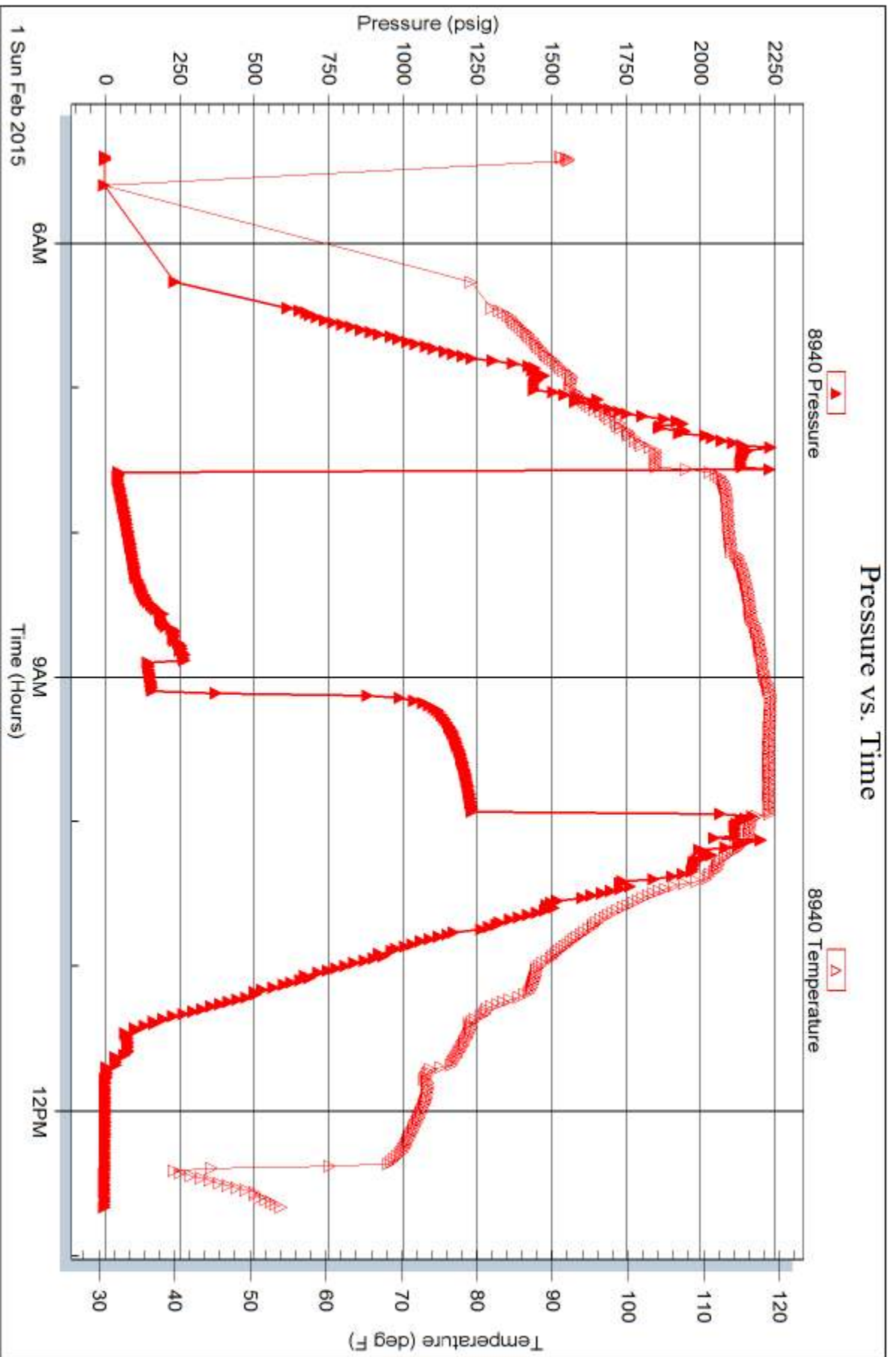


Serial #: 8940

Outside American Warrior Inc

Shank #5-11

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 62414

Printed: 2015.02.02 @ 15:59:20



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62413

Well Name & No. Shank #5-11 Test No. 1 Date 1-31-15  
 Company American Warrior INC Elevation 2262 KB 2270 GL  
 Address Po Box 399, Garden City KS, 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #3  
 Location: Sec. 11 Twp. 20S Rge. 21W Co. Ness State KS

Interval Tested 4416-4430 Zone Tested Miss  
 Anchor Length 14' Drill Pipe Run 4375' Mud Wt. 9.0  
 Top Packer Depth 4411 Drill Collars Run 30' Vis 52  
 Bottom Packer Depth 4416 Wt. Pipe Run — WL 7.2  
 Total Depth 4430 Chlorides 2,400 ppm System LCM 1

Blow Description IF-B.O.B. in 1 minute slid 2'  
ISI - No return  
FF - 8 1/4" blow  
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT 115° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2228</u>	<input checked="" type="checkbox"/> Test <u>950</u>	T-On Location <u>1515</u>
(B) First Initial Flow <u>94</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1535</u>
(C) First Final Flow <u>108</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1913</u>
(D) Initial Shut-In <u>1929</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2118</u>
(E) Second Initial Flow <u>143</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2337</u>
(F) Second Final Flow <u>160</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT 114</u>	Comments <u>suppose to be on</u>
(G) Final Shut-In <u>1451</u>	<input type="checkbox"/> Sampler	<u>bank @ 4:30pm</u>
(H) Final Hydrostatic <u>2107</u>	<input type="checkbox"/> Straddle	<u>on bank 5:45pm</u>

Initial Open 5  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 45

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1389

Sub Total 1389

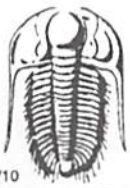
MP/DST Disc't —

Approved By \_\_\_\_\_

Our Representative Cody Bledorn

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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62414

Well Name & No. shank #5-11 Test No. 2 Date 2-1-15  
 Company American Warrior Inc Elevation 2262 KB 2270 GL  
 Address PO Box 399, Garden City KS, 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #3  
 Location: Sec. 11 Twp. 20S Rge. 21W Co. Ness State KS

Interval Tested 4417 - 4430 Zone Tested Miss  
 Anchor Length 13' Drill Pipe Run 4375 Mud Wt. 9.0  
 Top Packer Depth 4412 Drill Collars Run 30' Vis 52  
 Bottom Packer Depth 4417 Wt. Pipe Run — WL 7.2  
 Total Depth 4430 Chlorides 2400 ppm System LCM 1

Blow Description IF-8" blow  
ISI-2" return  
FF-3" blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>50CWM</u>	<u>5</u>	<u>45</u>	<u>50</u>	<u>—</u>
<u>124</u>	<u>50CWM</u>	<u>5</u>	<u>90</u>	<u>5</u>	<u>—</u>
<u>102</u>	<u>50CWM</u>	<u>5</u>	<u>25</u>	<u>70</u>	<u>—</u>
<u>10</u>	<u>60</u>	<u>5</u>	<u>95</u>	<u>—</u>	<u>—</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 298' BHT 116° Gravity — API RW 1.26 @ .50 °F Chlorides 38,000 ppm  
 (A) Initial Hydrostatic 2343  Test 1150 T-On Location 1200  
 (B) First Initial Flow ~~2307~~ 56  Jars 250 T-Started 0524  
 (C) First Final Flow 103  Safety Joint 75 T-Open 0735  
 (D) Initial Shut-In 268  Circ Sub \_\_\_\_\_ T-Pulled 0950  
 (E) Second Initial Flow 147  Hourly Standby \_\_\_\_\_ T-Out 1240  
 (F) Second Final Flow 160  Mileage \_\_\_\_\_ Comments Stayed on location  
 (G) Final Shut-In 1234  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2116  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Open 45  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1475  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1475

Approved By \_\_\_\_\_ Our Representative Cody Bloodorn

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.