



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason T Alm

### **Rein #5-23**

#### **23 19s 22w Ness,KS**

Start Date: 2015.06.22 @ 22:40:00

End Date: 2015.06.23 @ 05:32:00

Job Ticket #: 62389                      DST #: 1

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

Printed: 2015.06.24 @ 16:47:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

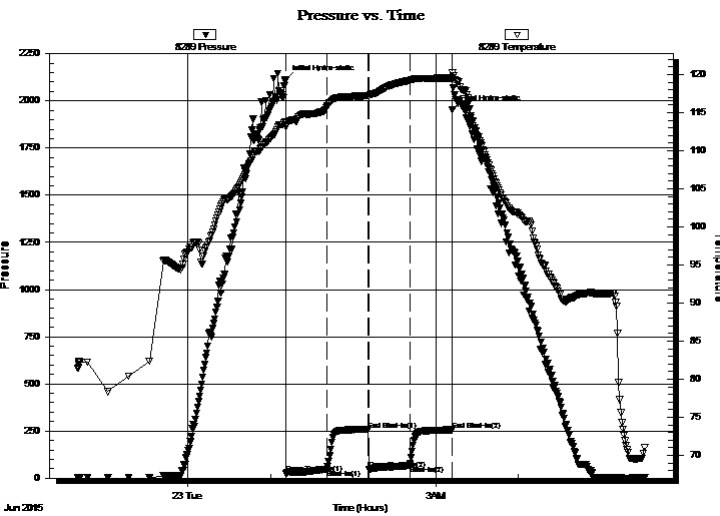
**23 19s 22w Ness, KS**  
**Rein #5-23**  
 Job Ticket: 62389 **DST#: 1**  
 Test Start: 2015.06.22 @ 22:40:00

## GENERAL INFORMATION:

Formation: **Cherokee "A" Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:15  
 Time Test Ended: 05:32:00  
 Interval: **4270.00 ft (KB) To 4300.00 ft (KB) (TVD)**  
 Total Depth: 4300.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2232.00 ft (KB)  
 2224.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**  
 Press@RunDepth: 67.67 psig @ 4272.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.06.22 End Date: 2015.06.23 Last Calib.: 2015.06.23  
 Start Time: 22:40:02 End Time: 05:32:00 Time On Btm: 2015.06.23 @ 01:11:00  
 Time Off Btm: 2015.06.23 @ 03:12:15

**TEST COMMENT:** 30-IF- BOB in 12 min.  
 30-ISI- No Blow  
 30-FF- BOB in 6 min.  
 30-FSI- Surface Blow Building to 1/2" In 2 min. Died Back in 9 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.05	113.74	Initial Hydro-static
1	26.51	113.12	Open To Flow (1)
30	46.84	115.71	Shut-In(1)
60	256.19	117.21	End Shut-In(1)
61	45.96	117.13	Open To Flow (2)
91	67.67	119.25	Shut-In(2)
121	256.24	119.55	End Shut-In(2)
122	1953.55	120.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
86.00	GWMCO 10%g 5%w 40%m 45%o	0.92
50.00	CO 100%	0.70
0.00	810 GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

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

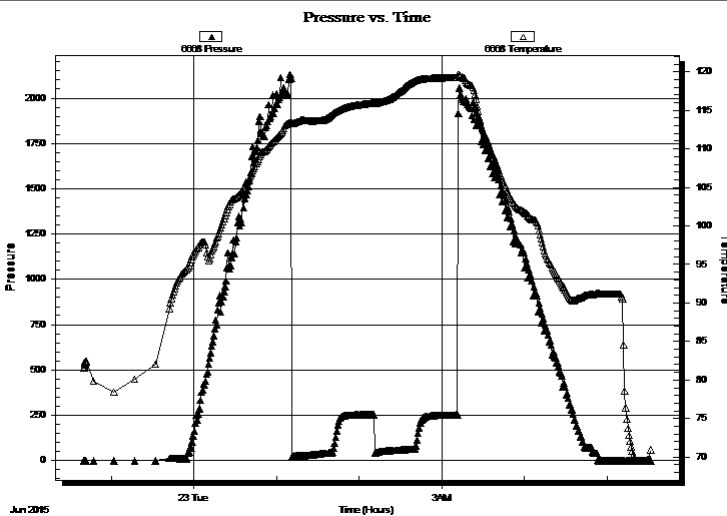
**23 19s 22w Ness, KS**  
**Rein #5-23**  
 Job Ticket: 62389 **DST#: 1**  
 Test Start: 2015.06.22 @ 22:40:00

## GENERAL INFORMATION:

Formation: **Cherokee "A" Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:15  
 Time Test Ended: 05:32:00  
 Interval: **4270.00 ft (KB) To 4300.00 ft (KB) (TVD)**  
 Total Depth: 4300.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2232.00 ft (KB)  
 2224.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6668** **Inside**  
 Press@RunDepth: psig @ 4272.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.06.22 End Date: 2015.06.23 Last Calib.: 2015.06.23  
 Start Time: 22:40:02 End Time: 05:32:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30-IF- BOB in 12 min.  
 30-ISI- No Blow  
 30-FF- BOB in 6 min.  
 30-FSI- Surface Blow Building to 1/2" In 2 min. Died Back in 9 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
86.00	GWMCO 10%g 5%w 40%m 45%o	0.92
50.00	CO 100%	0.70
0.00	810 GIP	0.00

## 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 T Alm

**23 19s 22w Ness, KS**  
**Rein #5-23**  
Job Ticket: 62389      **DST#: 1**  
Test Start: 2015.06.22 @ 22:40:00

**Tool Information**

Drill Pipe:	Length: 4218.00 ft	Diameter: 3.80 inches	Volume: 59.17 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 59.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4270.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.00 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			4243.00	
Shut In Tool	5.00			4248.00	
Hydraulic tool	5.00			4253.00	
Jars	5.00			4258.00	
Safety Joint	2.00			4260.00	
Packer	5.00			4265.00	28.00      Bottom Of Top Packer
Packer	5.00			4270.00	
Stubb	1.00			4271.00	
Perforations	1.00			4272.00	
Recorder	0.00	6668	Inside	4272.00	
Recorder	0.00	8289	Outside	4272.00	
Perforations	25.00			4297.00	
Bullnose	3.00			4300.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**23 19s 22w Ness,KS**  
**Rein #5-23**  
Job Ticket: 62389      **DST#: 1**  
Test Start: 2015.06.22 @ 22:40:00

## Mud and Cushion Information

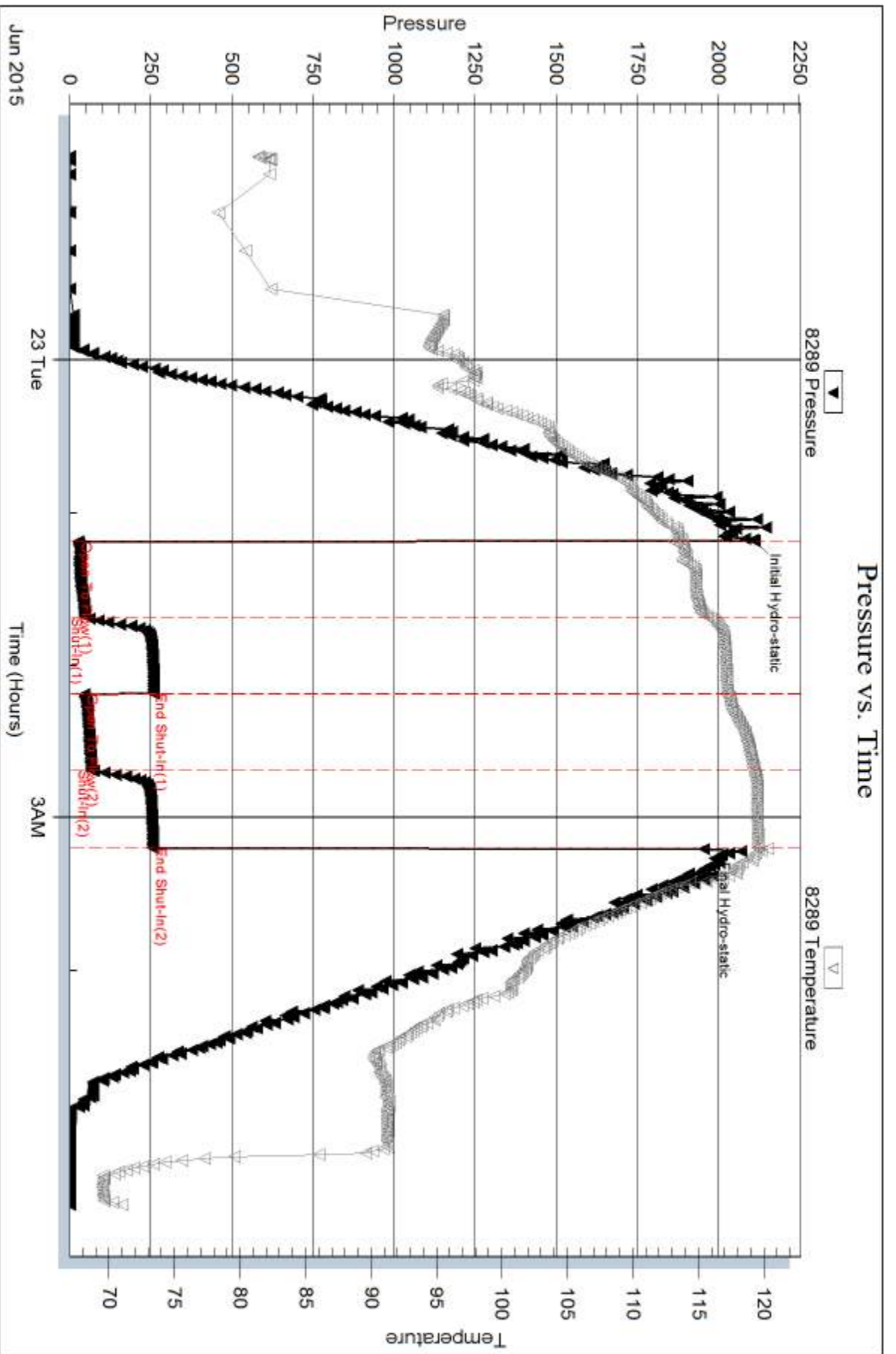
Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
86.00	GWMCO 10%g 5%w 40%m 45%o	0.924
50.00	CO 100%	0.701
0.00	810 GIP	0.000

Total Length: 136.00 ft      Total Volume: 1.625 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



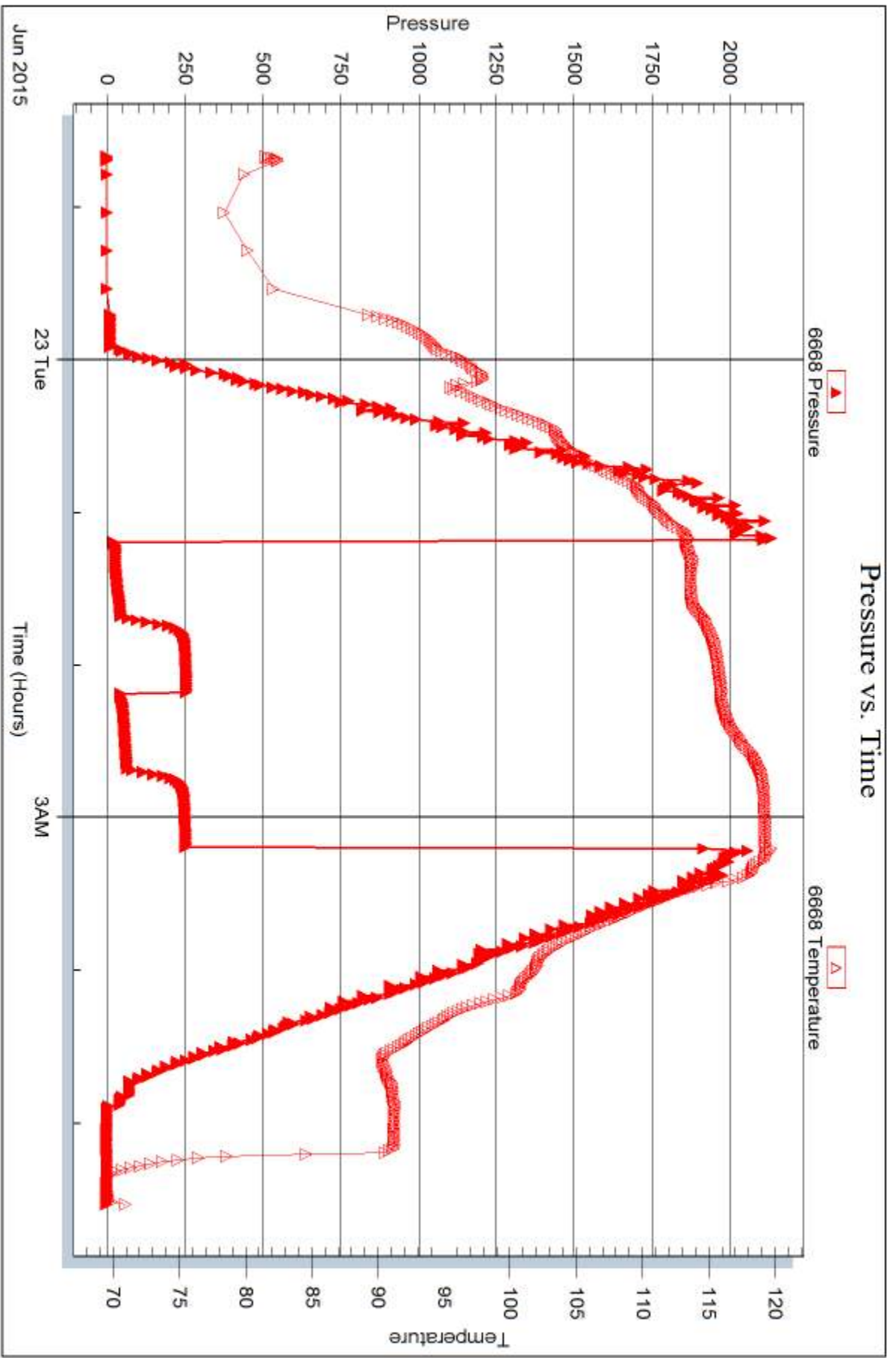
Serial #: 6668

Inside

American Warrior Inc

Rein #5-23

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 62389

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## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason T Alm

### **Rein #5-23**

#### **23 19s 22w Ness,KS**

Start Date: 2015.06.23 @ 17:07:00

End Date: 2015.06.23 @ 23:31:00

Job Ticket #: 62390                      DST #: 2

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

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

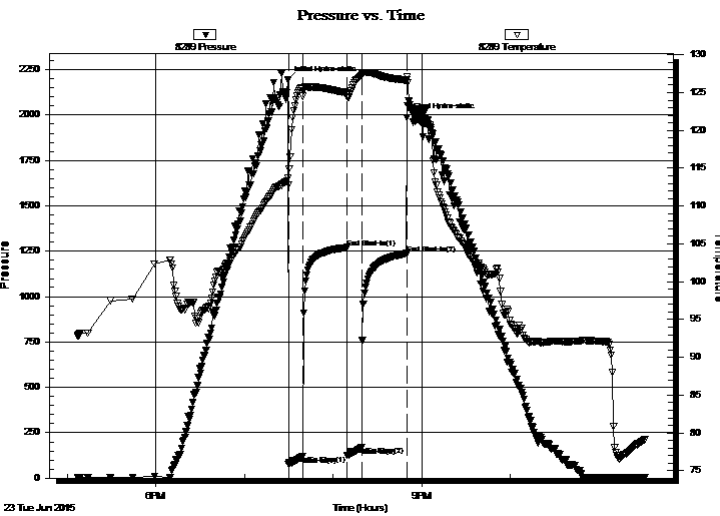
**23 19s 22w Ness,KS**  
**Rein #5-23**  
Job Ticket: 62390      **DST#: 2**  
Test Start: 2015.06.23 @ 17:07:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 19:29:45  
Time Test Ended: 23:31:00  
Interval: **4356.00 ft (KB) To 4372.00 ft (KB) (TVD)**  
Total Depth: 4372.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 76  
Reference Elevations: 2232.00 ft (KB)  
2224.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8289      Outside**  
Press@RunDepth: 170.53 psig @ 4359.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.06.23      End Date: 2015.06.23      Last Calib.: 2015.06.23  
Start Time: 17:07:02      End Time: 23:31:15      Time On Btm: 2015.06.23 @ 19:29:30  
Time Off Btm: 2015.06.23 @ 20:50:00

**TEST COMMENT:** 10-IF- BOB in 4 min.  
30-ISI- Surface Blow in 1 min. Died in 11 min.  
10-FF- BOB in 7 min.  
30-FSI- Surface Blow in 1 min. Died in 8 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.44	113.67	Initial Hydro-static
1	75.86	112.83	Open To Flow (1)
10	118.86	124.51	Shut-In(1)
40	1270.30	124.94	End Shut-In(1)
41	125.98	124.47	Open To Flow (2)
50	170.53	127.30	Shut-In(2)
81	1237.19	126.64	End Shut-In(2)
81	1984.33	127.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	GWCO 10%g 25%w 65%o	4.14
75.00	MWCO 10%m 20%w 70%o	1.05
0.00	175 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**23 19s 22w Ness, KS**  
**Rein #5-23**  
 Job Ticket: 62390 **DST#: 2**  
 Test Start: 2015.06.23 @ 17:07:00

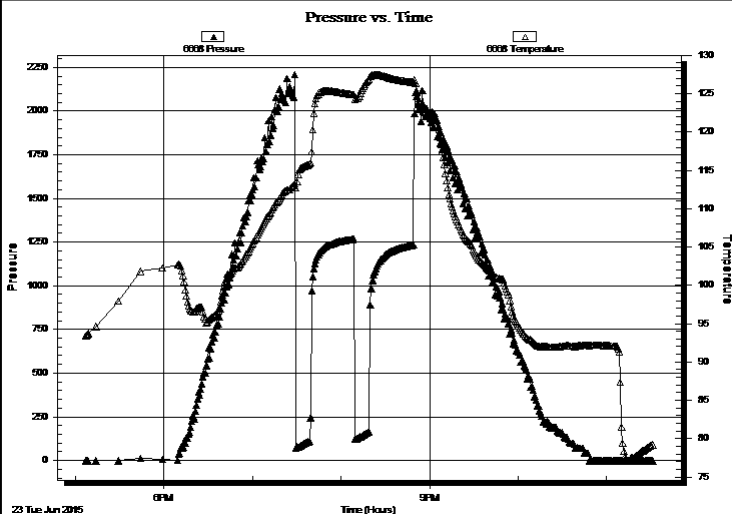
## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:29:45  
 Time Test Ended: 23:31:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 76  
 Interval: **4356.00 ft (KB) To 4372.00 ft (KB) (TVD)**  
 Total Depth: 4372.00 ft (KB) (TVD)  
 Reference Elevations: 2232.00 ft (KB)  
 2224.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

## Serial #: 6668 Inside

Press@RunDepth: psig @ 4359.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.06.23 End Date: 2015.06.23 Last Calib.: 2015.06.23  
 Start Time: 17:07:02 End Time: 23:31:00 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 10-IF- BOB in 4 min.  
 30-ISI- Surface Blow in 1 min. Died in 11 min.  
 10-FF- BOB in 7 min.  
 30-FSI- Surface Blow in 1 min. Died in 8 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
315.00	GWCO 10%g 25%w 65%o	4.14
75.00	MWCO 10%m 20%w 70%o	1.05
0.00	175 GIP	0.00

\* 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 T Alm

**23 19s 22w Ness, KS**  
**Rein #5-23**  
Job Ticket: 62390      **DST#: 2**  
Test Start: 2015.06.23 @ 17:07:00

**Tool Information**

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4356.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 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			4329.00	
Shut In Tool	5.00			4334.00	
Hydraulic tool	5.00			4339.00	
Jars	5.00			4344.00	
Safety Joint	2.00			4346.00	
Packer	5.00			4351.00	28.00      Bottom Of Top Packer
Packer	5.00			4356.00	
Stubb	1.00			4357.00	
Perforations	2.00			4359.00	
Recorder	0.00	6668	Inside	4359.00	
Recorder	0.00	8289	Outside	4359.00	
Perforations	10.00			4369.00	
Bullnose	3.00			4372.00	16.00      Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**23 19s 22w Ness,KS**  
**Rein #5-23**  
Job Ticket: 62390      **DST#: 2**  
Test Start: 2015.06.23 @ 17:07:00

## Mud and Cushion Information

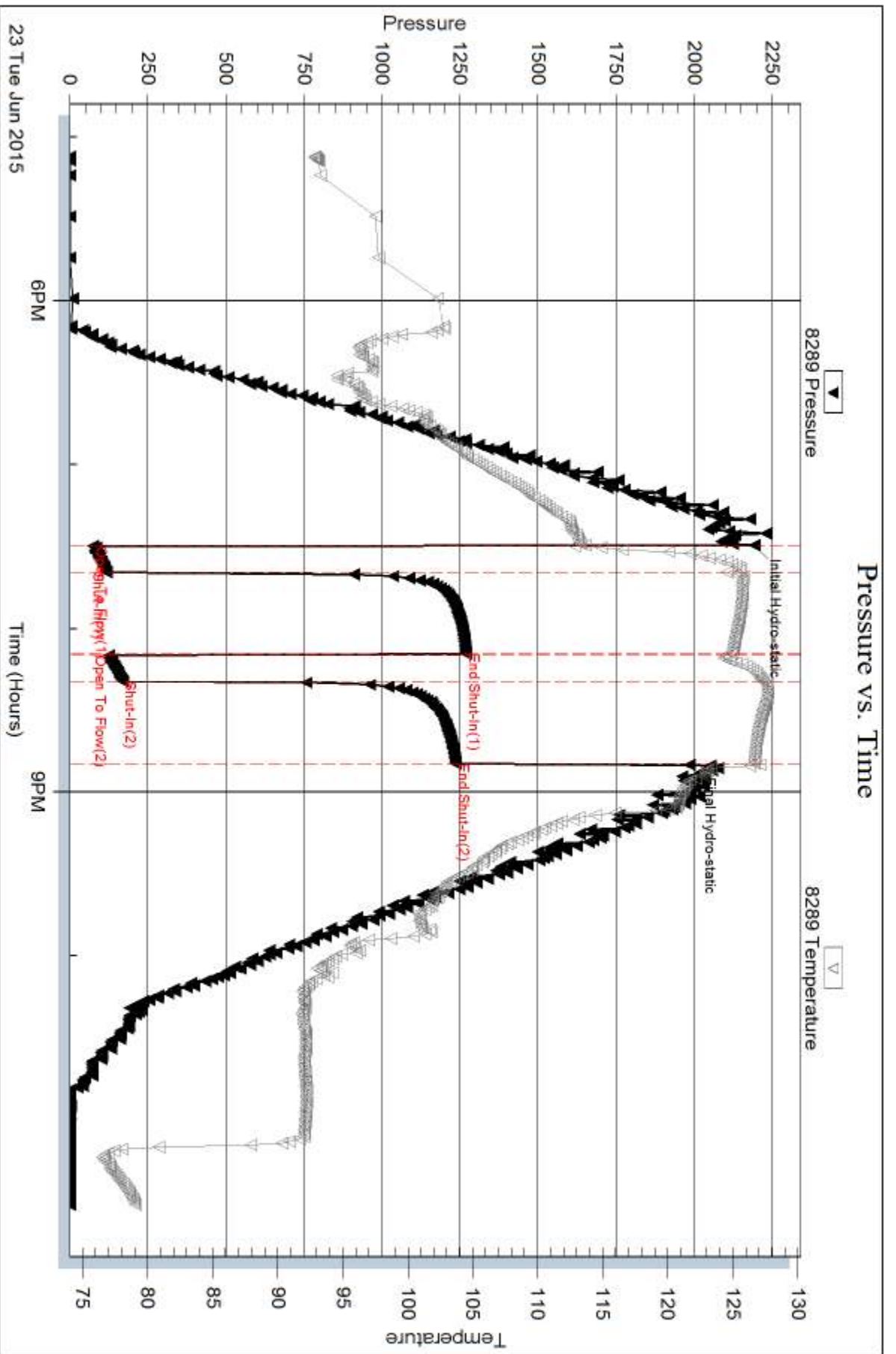
Mud Type: Gel Chem	Cushion Type:	Oil API: 45 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5700.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	GWCO 10%g 25%w 65%o	4.136
75.00	MWCO 10%m 20%w 70%o	1.052
0.00	175 GIP	0.000

Total Length: 390.00 ft      Total Volume: 5.188 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



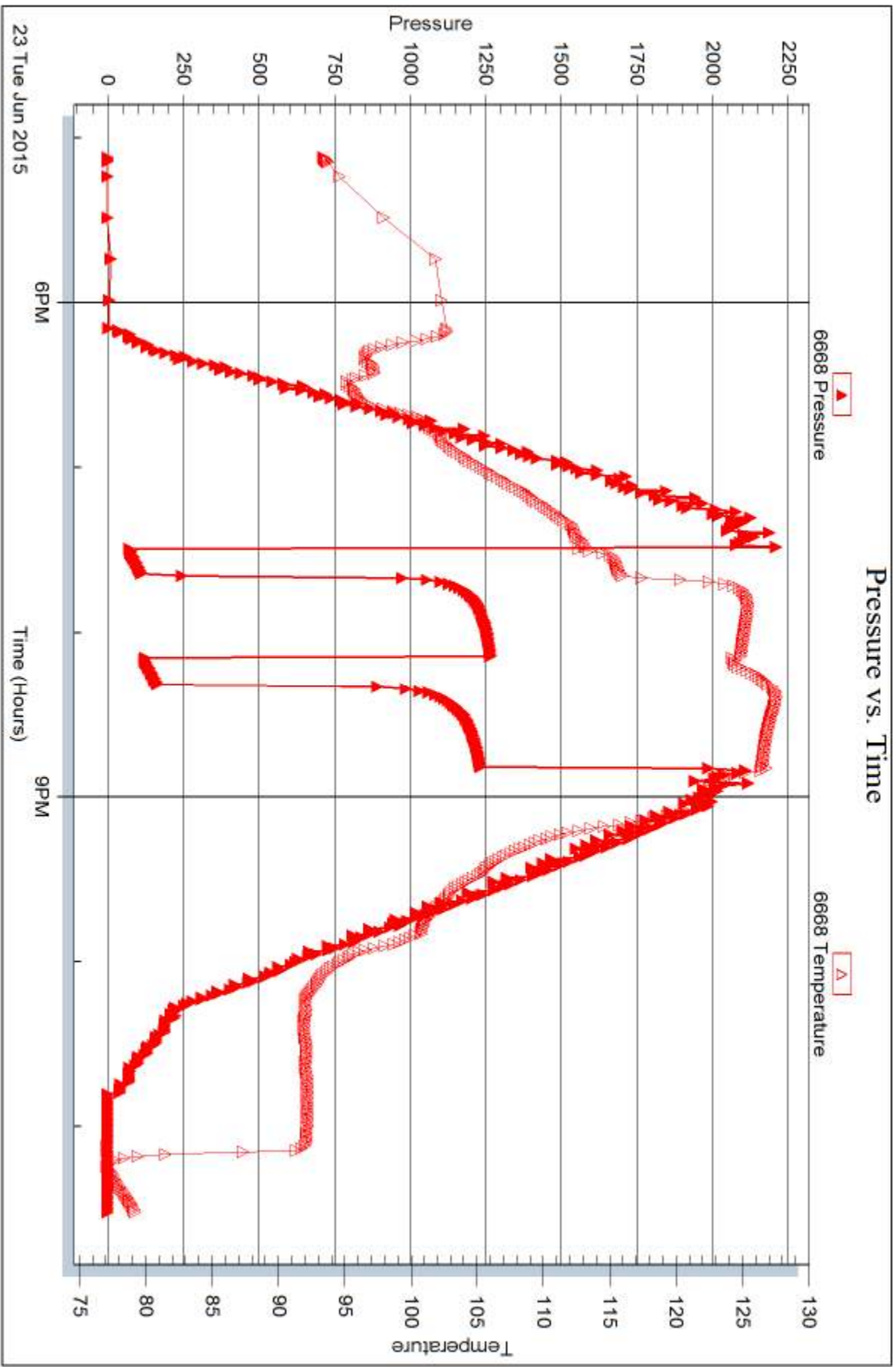
Serial #: 6668

Inside

American Warrior Inc

Rein #5-23

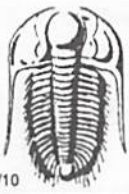
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 62390

Printed: 2015.06.24 @ 16:45:38



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62389

Well Name & No. Rein # 5-23 Test No. 1 Date 6-22-15  
 Company American Warrior, Inc. Elevation 2232 KB 2224 GL  
 Address 3118 Cummings Rd Box 399 Garden City KS 67846  
 Co. Rep / Geo. Jason T. Alm Rig Discovery #3  
 Location: Sec. 23 Twp. 19<sup>s</sup> Rge. 22<sup>w</sup> Co. Ness State KS

Interval Tested 4270 - 4300 Zone Tested Cherokee Sand  
 Anchor Length 30 Drill Pipe Run 4218 Mud Wt. 9.1  
 Top Packer Depth 4265 Drill Collars Run 31 Vis 49  
 Bottom Packer Depth 4270 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4300 Chlorides 3500 ppm System LCM TR

Blow Description IF- BOB in 12min.  
ISI- No Blow

FF- BOB in 6min.

FSI- Surface Blow Building to 1/2 in. In 2min. Died Back in 9min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>86</u>	<u>2WMC0</u>	<u>10</u>	<u>45</u>	<u>5</u>	<u>40</u>
<u>50</u>	<u>CO</u>		<u>100</u>		
	<u>810 DIP</u>				

Rec Total 136 BHT 120 Gravity 37 API RW @      °F Chlorides      ppm

- (A) Initial Hydrostatic 2111
- (B) First Initial Flow 26
- (C) First Final Flow 46
- (D) Initial Shut-In 256
- (E) Second Initial Flow 45
- (F) Second Final Flow 67
- (G) Final Shut-In 256
- (H) Final Hydrostatic 1953

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 109 RT 109
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1584

T-On Location 20:20  
 T-Started 22:40  
 T-Open 01:11  
 T-Pulled 03:11  
 T-Out 05:32

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1584  
 MP/DST Disc't \_\_\_\_\_

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

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62390

Well Name & No. Rein #5-23 Test No. 2 Date 6-23-15  
 Company American Warrior, Inc. Elevation 2232 KB 2224 GL  
 Address 3118 Cummings Rd Box 399 Garden City KS 67846  
 Co. Rep / Geo. JASON T. Alm Rig Discovery #3  
 Location: Sec. 23 Twp. 19<sup>s</sup> Rge. 22<sup>w</sup> Co. Ness State KS

Interval Tested 4356 - 4372 Zone Tested Miss  
 Anchor Length 16 Drill Pipe Run 4312 Mud Wt. 9.0  
 Top Packer Depth 4351 Drill Collars Run 31 Vis 61  
 Bottom Packer Depth 4356 Wt. Pipe Run 0 WL 9.2  
 Total Depth 4372 Chlorides 5700 ppm System LCM TR

Blow Description IF - BOB in 4min.  
ISF - Surface Blow in 1min. Died in 11min.  
FF - BOB in 7min.  
FSF - Surface Blow in 1min Died in 8min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>DWCO</u>	<u>10</u>	<u>65</u>	<u>25</u>	
<u>75</u>	<u>MWCO</u>		<u>70</u>	<u>20</u>	<u>10</u>
	<u>175 DIP</u>				

Rec Total 390 BHT 127 Gravity 45 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2192  Test 1150 T-On Location 16:19  
 (B) First Initial Flow 75  Jars 250 T-Started 17:07  
 (C) First Final Flow 118  Safety Joint 75 T-Open 19:30  
 (D) Initial Shut-In 1270  Circ Sub \_\_\_\_\_ T-Pulled 20:50  
 (E) Second Initial Flow 125  Hourly Standby \_\_\_\_\_ T-Out 23:31  
 (F) Second Final Flow 170  Mileage 109 RT 109 Comments \_\_\_\_\_  
 (G) Final Shut-In 1237  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1984  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 10  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1584  
 Final Flow 10  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1584

Approved By \_\_\_\_\_ Our Representative

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.