



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timsen

**Clark #3-2**

**2-25s-31w Finney,KS**

Start Date: 2014.04.17 @ 11:44:17

End Date: 2014.04.17 @ 21:21:17

Job Ticket #: 52493                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.23 @ 10:44:50



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Kevin Timsen

**2-25s-31w Finney,KS**  
**Clark #3-2**  
 Job Ticket: 52493 **DST#: 1**  
 Test Start: 2014.04.17 @ 11:44:17

## GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 16:28:47  
 Time Test Ended: 21:21:17  
 Interval: **4818.00 ft (KB) To 4847.00 ft (KB) (TVD)**  
 Total Depth: 4847.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Reynolds  
 Unit No: 68  
 Reference Elevations: 2839.00 ft (KB)  
 2830.00 ft (CF)  
 KB to GR/CF: 9.00 ft

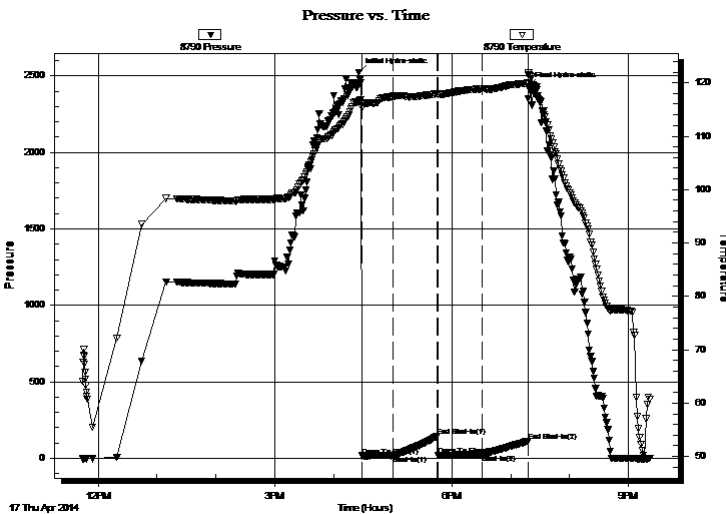
## Serial #: 8790

Inside

Press@RunDepth: 24.68 psig @ 4819.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.17 End Date: 2014.04.17 Last Calib.: 2014.04.17  
 Start Time: 11:44:22 End Time: 21:21:17 Time On Btm: 2014.04.17 @ 16:25:47  
 Time Off Btm: 2014.04.17 @ 19:18:02

TEST COMMENT: IF: Weak blow . surf. - 3"  
 IS: No blow  
 FF: Fair blow . 7" - 4"  
 FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2522.54	116.66	Initial Hydro-static
3	15.52	115.28	Open To Flow (1)
35	17.83	117.47	Shut-In(1)
80	145.23	117.97	End Shut-In(1)
81	18.65	117.72	Open To Flow (2)
125	24.68	118.85	Shut-In(2)
172	111.65	119.94	End Shut-In(2)
173	2429.02	121.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 7%o, 93%m	0.42
0.00	180' GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)



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American Warrior Inc.  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Kevin Timsen

**2-25s-31w Finney, KS**

**Clark #3-2**

Job Ticket: 52493

**DST#: 1**

Test Start: 2014.04.17 @ 11:44:17

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 16:28:47

Time Test Ended: 21:21:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

**Interval: 4818.00 ft (KB) To 4847.00 ft (KB) (TVD)**

Total Depth: 4847.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2839.00 ft (KB)

2830.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8792 Outside**

Press@RunDepth: psig @ 4819.00 ft (KB)

Start Date: 2014.04.17

End Date: 2014.04.17

Start Time: 11:40:06

End Time: 21:21:46

Capacity: 8000.00 psig

Last Calib.: 2014.04.17

Time On Btm:

Time Off Btm:

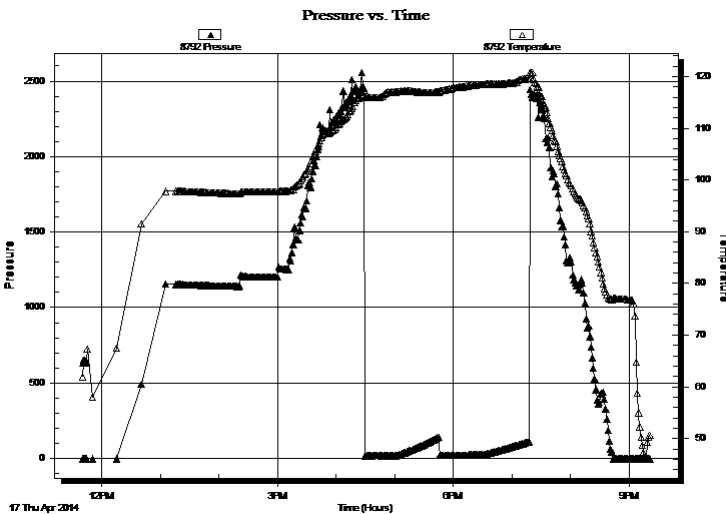
TEST COMMENT: IF: Weak blow . surf. - 3"

IS: No blow

FF: Fair blow . 7" - 4"

FS: No blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 7%o, 93% m	0.42
0.00	180' GIP	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m³/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Kevin Timsen

**2-25s-31w Finney,KS**  
**Clark #3-2**  
Job Ticket: 52493      **DST#: 1**  
Test Start: 2014.04.17 @ 11:44:17

**Tool Information**

Drill Pipe:	Length: 4810.00 ft	Diameter: 3.80 inches	Volume: 67.47 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	83000.00 lb
			<u>Total Volume: 67.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	4818.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	56.00 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			4792.00	
Shut In Tool	5.00			4797.00	
Hydraulic tool	5.00			4802.00	
Jars	5.00			4807.00	
Safety Joint	2.00			4809.00	
Packer	5.00			4814.00	27.00      Bottom Of Top Packer
Packer	4.00			4818.00	
Stubb	1.00			4819.00	
Recorder	0.00	8790	Inside	4819.00	
Recorder	0.00	8792	Outside	4819.00	
Perforations	25.00			4844.00	
Bullnose	3.00			4847.00	29.00      Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**2-25s-31w Finney,KS**

PO Box 399  
Garden City, KS 67846

**Clark #3-2**

Job Ticket: 52493

**DST#: 1**

ATTN: Kevin Timsen

Test Start: 2014.04.17 @ 11:44:17

## 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:

3000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.08 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 7%o, 93%m	0.421
0.00	180' GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

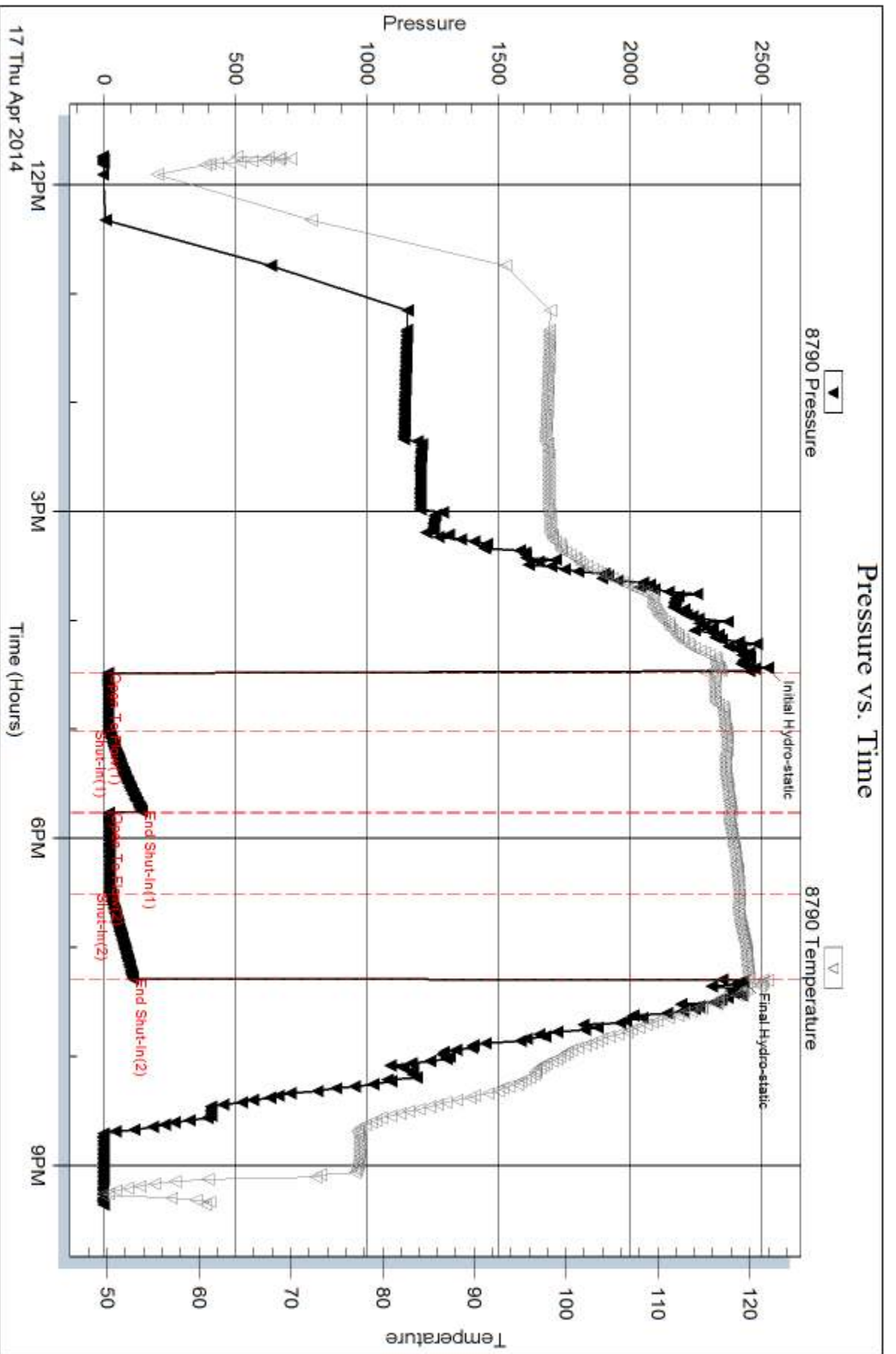
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

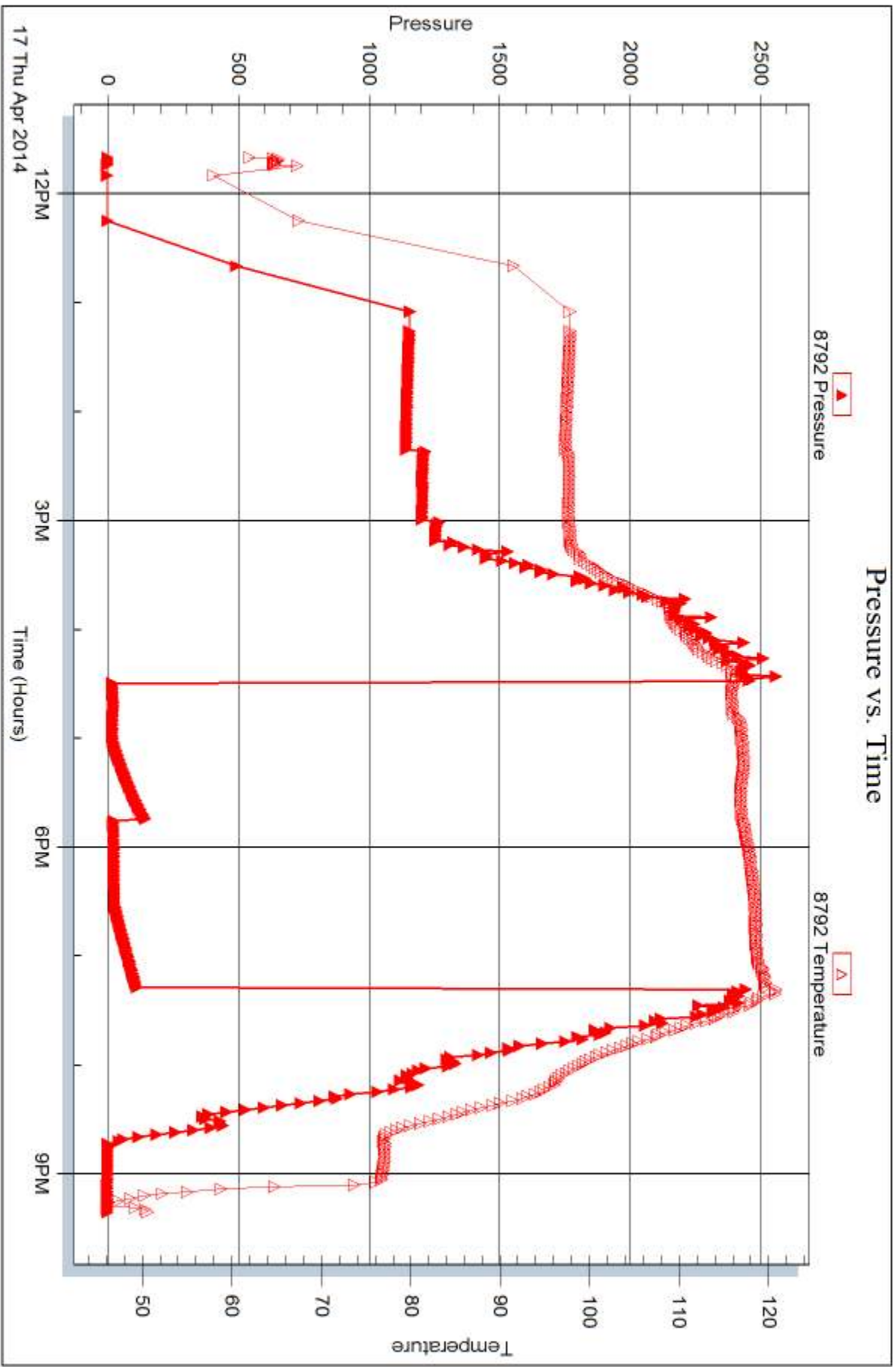


Serial #: 8792

Outside American Warrior Inc.

Clark #3-2

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 52493

Printed: 2014.04.23 @ 10:44:52



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timsen

### **Clark #3-2**

#### **2-25s-31w Finney,KS**

Start Date: 2014.04.18 @ 10:37:52

End Date: 2014.04.18 @ 18:23:52

Job Ticket #: 52949                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.23 @ 10:43:46





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Kevin Timsen

**2-25s-31w Finney,KS**  
**Clark #3-2**  
Job Ticket: 52949      **DST#: 2**  
Test Start: 2014.04.18 @ 10:37:52

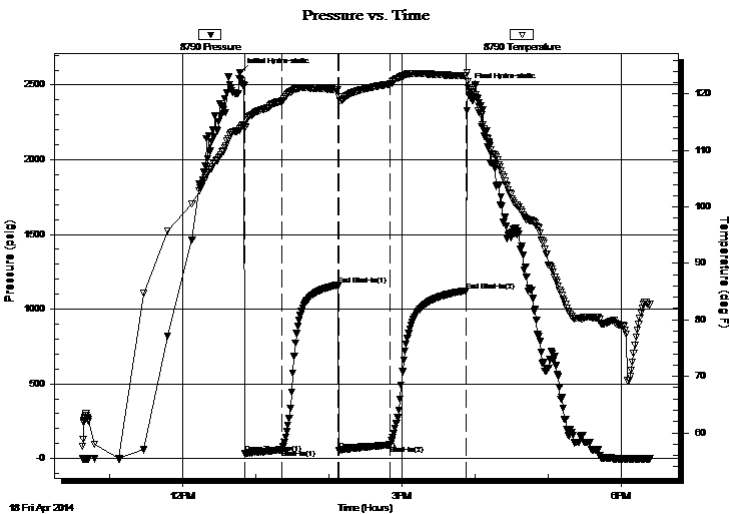
## GENERAL INFORMATION:

Formation: **St. Louis**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 12:51:22  
Time Test Ended: 18:23:52  
Interval: **4884.00 ft (KB) To 4911.00 ft (KB) (TVD)**  
Total Depth: 4911.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ryan Reynolds  
Unit No: 68  
Reference Elevations: 2839.00 ft (KB)  
2830.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8790**      **Inside**  
Press@RunDepth: 91.16 psig @ 4885.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.04.18      End Date: 2014.04.18      Last Calib.: 2014.04.18  
Start Time: 10:37:57      End Time: 18:23:51      Time On Btm: 2014.04.18 @ 12:47:22  
Time Off Btm: 2014.04.18 @ 15:54:37

**TEST COMMENT:** IF: Strong blow BOB @ 3 min.  
IS: Weak surf. BB  
FF: Strong blow . BOB @ 2 min.  
IS: Fair 5" BB (GTS during shut-in)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2584.75	113.84	Initial Hydro-static
4	31.60	113.99	Open To Flow (1)
35	58.99	118.75	Shut-In(1)
80	1161.76	120.78	End Shut-In(1)
82	57.03	119.45	Open To Flow (2)
123	91.16	121.76	Shut-In(2)
186	1123.63	123.24	End Shut-In(2)
188	2480.83	122.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MGCO 30% m, 30% g, 40% o	1.26
120.00	Clean Oil	1.68
0.00	GTS	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)



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TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Kevin Timsen

**2-25s-31w Finney,KS**  
**Clark #3-2**  
Job Ticket: 52949 **DST#: 2**  
Test Start: 2014.04.18 @ 10:37:52

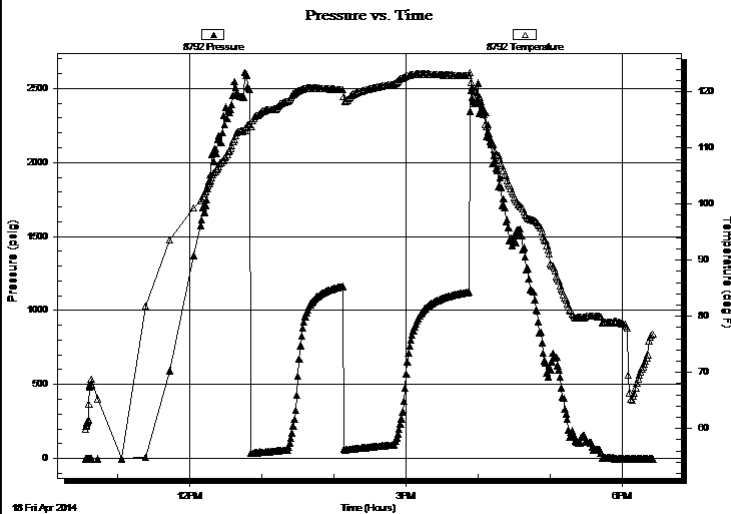
## GENERAL INFORMATION:

Formation: **St. Louis**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 12:51:22  
Time Test Ended: 18:23:52  
Interval: **4884.00 ft (KB) To 4911.00 ft (KB) (TVD)**  
Total Depth: 4911.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ryan Reynolds  
Unit No: 68  
Reference Elevations: 2839.00 ft (KB)  
2830.00 ft (CF)  
KB to GR/CF: 9.00 ft

## Serial #: 8792 Outside

Press@RunDepth: psig @ 4885.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.04.18 End Date: 2014.04.18 Last Calib.: 2014.04.18  
Start Time: 10:33:36 End Time: 18:25:15 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: Strong blow BOB @ 3 min.  
IS: Weak surf. BB  
FF: Strong blow . BOB @ 2 min.  
IS: Fair 5" BB (GTS during shut-in)



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MGCO 30% m, 30% g, 40% o	1.26
120.00	Clean Oil	1.68
0.00	GTS	0.00

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Kevin Timsen

**2-25s-31w Finney,KS**  
**Clark #3-2**  
Job Ticket: 52949      **DST#: 2**  
Test Start: 2014.04.18 @ 10:37:52

**Tool Information**

Drill Pipe:	Length: 4872.00 ft	Diameter: 3.80 inches	Volume: 68.34 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 68.34 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	4884.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4858.00	
Shut In Tool	5.00			4863.00	
Hydraulic tool	5.00			4868.00	
Jars	5.00			4873.00	
Safety Joint	2.00			4875.00	
Packer	5.00			4880.00	27.00 Bottom Of Top Packer
Packer	4.00			4884.00	
Stubb	1.00			4885.00	
Recorder	0.00	8790	Inside	4885.00	
Recorder	0.00	8792	Outside	4885.00	
Perforations	23.00			4908.00	
Bullnose	3.00			4911.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Kevin Timsen

**2-25s-31w Finney,KS**  
**Clark #3-2**  
Job Ticket: 52949      **DST#: 2**  
Test Start: 2014.04.18 @ 10:37:52

## Mud and Cushion Information

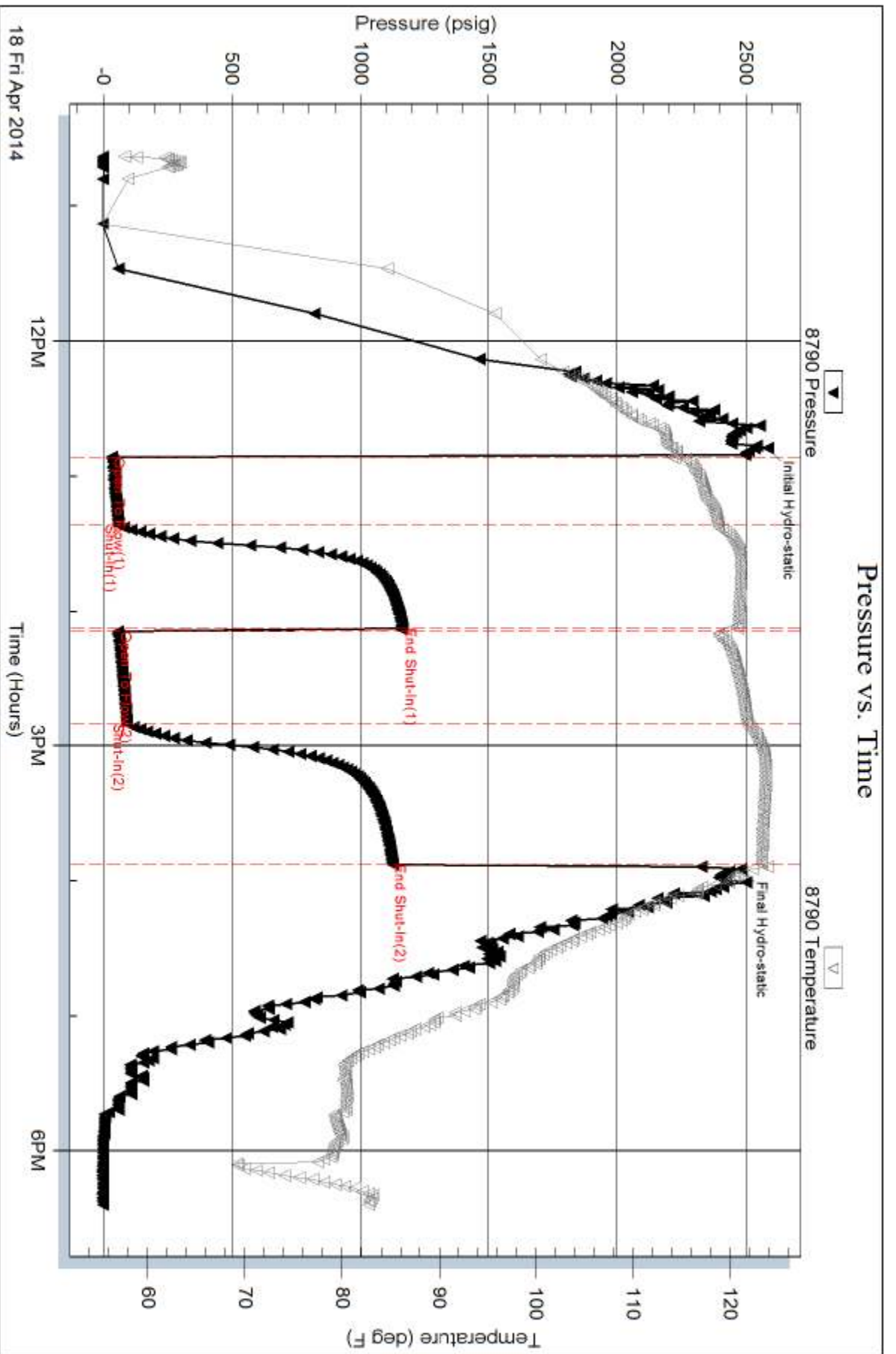
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	3700 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 0.08 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MGCO 30%m, 30%g, 40%o	1.262
120.00	Clean Oil	1.683
0.00	GTS	0.000

Total Length: 210.00 ft      Total Volume: 2.945 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

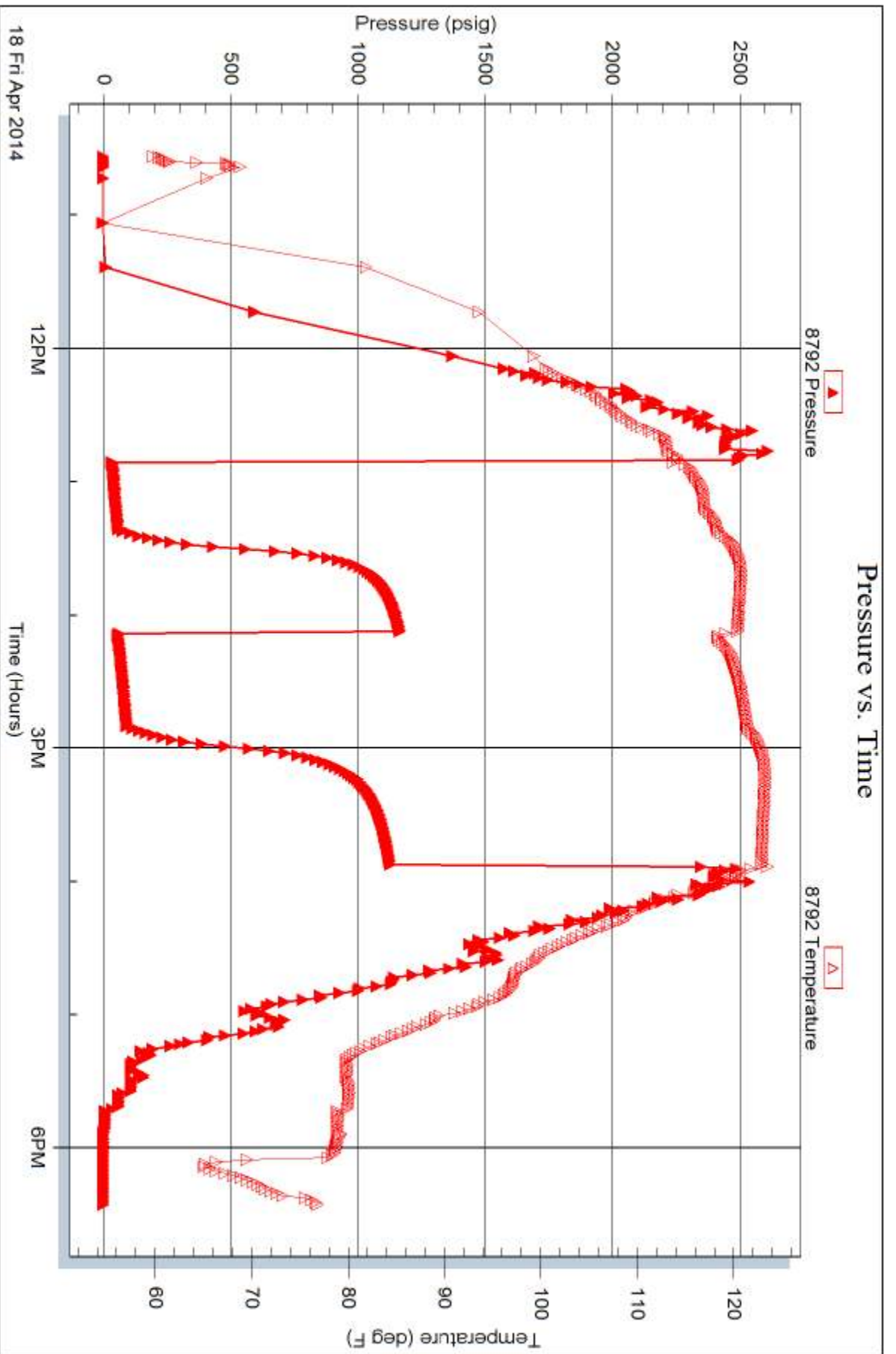


Serial #: 8792

Outside American Warrior Inc.

Clark #3-2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 52949

Printed: 2014.04.23 @ 10:43:48



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52493

Well Name & No. Clark #3-2 Test No. 1 Date 4-17-14  
 Company American Warrior Inc. Elevation 2839 KB 2830 GL  
 Address 3118 Cumming Rd. Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig. Duke 10  
 Location: Sec. 2 Twp. 25s. Rge. 31w. Co. Finney State KS

Interval Tested 4818-4847 Zone Tested Morrow  
 Anchor Length 29' Drill Pipe Run 4810 Mud Wt. 9.4  
 Top Packer Depth 4813 Drill Collars Run Ø Vis 49  
 Bottom Packer Depth 4818 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4847 Chlorides 3000 ppm System LCM 2#  
 Blow Description IF: Weak blow surf. - 3" IST: No blow  
FF: Fair blow. 7" - 4" FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>GIP</u>				
<u>30</u>	<u>OLM</u>		<u>7</u>		<u>93</u>

Rec Total 210 BHT 120 Gravity N/C API RW N/C @ N/C °F Chlorides 3000 ppm  
 (A) Initial Hydrostatic 2523  Test 1250 T-On Location 1100  
 (B) First Initial Flow 16  Jars 250 T-Started 1144  
 (C) First Final Flow 18  Safety Joint 75 T-Open 1630  
 (D) Initial Shut-In 145  Circ Sub \_\_\_\_\_ T-Pulled 1915  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 2121  
 (F) Second Final Flow 25  Mileage 120 186 Comments Stuck @ Sleep  
 (G) Final Shut-In 112  Sampler \_\_\_\_\_ Trn in G.C.  
 (H) Final Hydrostatic 2429  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1761  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1761

Approved By \_\_\_\_\_ Our Representative Ryan Reynolds  
 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. 52494

Well Name & No. Clark #3-2 Test No. 2 Date 4-18-14  
 Company American Warrior Inc. Elevation 2839 KB 2830 GL  
 Address [REDACTED] 3118 Cummings Rd, Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke 10  
 Location: Sec. 2 Twp. 25s. Rge. 31w. Co. Finney State KS

Interval Tested 4884 - 4911 Zone Tested St. Louis  
 Anchor Length 27 Drill Pipe Run 4872 Mud Wt. 9.5+  
 Top Packer Depth 4879 Drill Collars Run Ø Vis 48  
 Bottom Packer Depth 4884 Wt. Pipe Run Ø WL 8.4  
 Total Depth 4911 Chlorides 3700 ppm System LCM 2#

Blow Description IF: Strong blow. BoB @ 3 min. IST: Weak surf.  
FF: Strong blow. BoB @ 2 min.  
FST: Fair 5" BB (GTS on shut-in)

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Clean Oil</u>				
<u>90</u>	<u>MGLD</u>	<u>30</u>	<u>40</u>	<u>30</u>	

Rec Total 210 BHT 123 Gravity 37 API RW W/K @ W/C Chlorides 3700 ppm

(A) Initial Hydrostatic <u>2585</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1000</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1038</u>
(C) First Final Flow <u>59</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1251</u>
(D) Initial Shut-In <u>1162</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1552</u>
(E) Second Initial Flow <u>57</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1824</u>
(F) Second Final Flow <u>91</u>	<input checked="" type="checkbox"/> Mileage <u>120</u> <u>186</u>	Comments
(G) Final Shut-In <u>1124</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2481</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1761</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1761</u>	

Approved By \_\_\_\_\_ Our Representative Ryan Royal  
 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.