



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Irsik-Finney #2-23**

#### **23-24S-31W Finney,KS**

Start Date: 2014.10.28 @ 06:12:10

End Date: 2014.10.28 @ 12:57:17

Job Ticket #: 57774                      DST #: 1

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

Printed: 2014.10.31 @ 09:22:09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**23-24S-31W Finney,KS**

**Irsik-Finney #2-23**

Job Ticket: 57774

**DST#: 1**

Test Start: 2014.10.28 @ 06:12:10

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:56:17

Time Test Ended: 12:57:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

**Interval: 4840.00 ft (KB) To 4887.00 ft (KB) (TVD)**

Reference Elevations: 2881.00 ft (KB)

Total Depth: 4887.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6798**

**Inside**

Press@RunDepth: 27.91 psig @ 4841.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.28

End Date:

2014.10.28

Last Calib.:

2014.10.28

Start Time: 06:12:11

End Time:

12:57:17

Time On Btm:

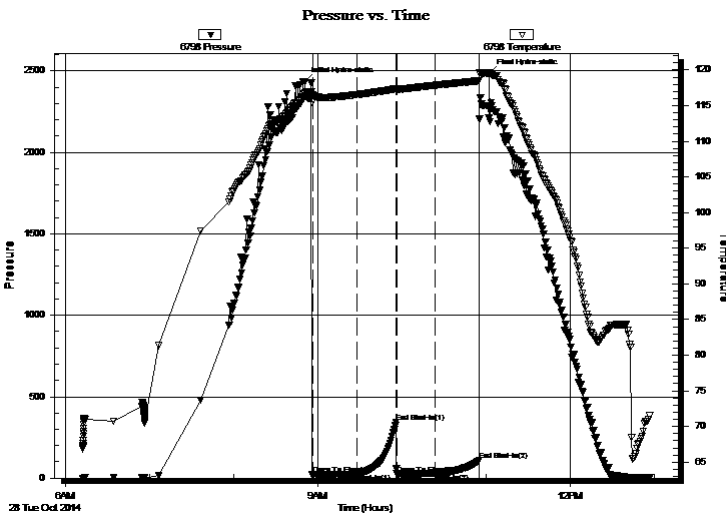
2014.10.28 @ 08:50:47

Time Off Btm:

2014.10.28 @ 11:02:32

TEST COMMENT: IF: Weak 1/4" Blow  
IS: No Blow Back  
FF: Weak Surface Blow  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2431.59	116.67	Initial Hydro-static
6	21.80	116.50	Open To Flow (1)
37	26.53	116.55	Shut-In(1)
65	342.55	117.38	End Shut-In(1)
66	25.91	117.27	Open To Flow (2)
93	27.91	117.85	Shut-In(2)
125	108.39	118.49	End Shut-In(2)
132	2485.29	119.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

## 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: Kevin Timson

**23-24S-31W Finney,KS**  
**Irsik-Finney #2-23**  
Job Ticket: 57774      **DST#: 1**  
Test Start: 2014.10.28 @ 06:12:10

**Tool Information**

Drill Pipe:	Length: 4831.00 ft	Diameter: 3.80 inches	Volume: 67.77 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 67.77 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4840.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	73.00 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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Shut In Tool	5.00			4819.00	
Hydraulic tool	5.00			4824.00	
Jars	5.00			4829.00	
Safety Joint	2.00			4831.00	
Packer	5.00			4836.00	26.00      Bottom Of Top Packer
Packer	4.00			4840.00	
Stubb	1.00			4841.00	
Recorder	0.00	6798	Inside	4841.00	
Recorder	0.00	8367	Outside	4841.00	
Perforations	5.00			4846.00	
Change Over Sub	1.00			4847.00	
Drill Pipe	31.00			4878.00	
Change Over Sub	1.00			4879.00	
Perforations	5.00			4884.00	
Bullnose	3.00			4887.00	47.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**23-24S-31W Finney,KS**  
**Irsik-Finney #2-23**  
Job Ticket: 57774      **DST#: 1**  
Test Start: 2014.10.28 @ 06:12:10

## 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

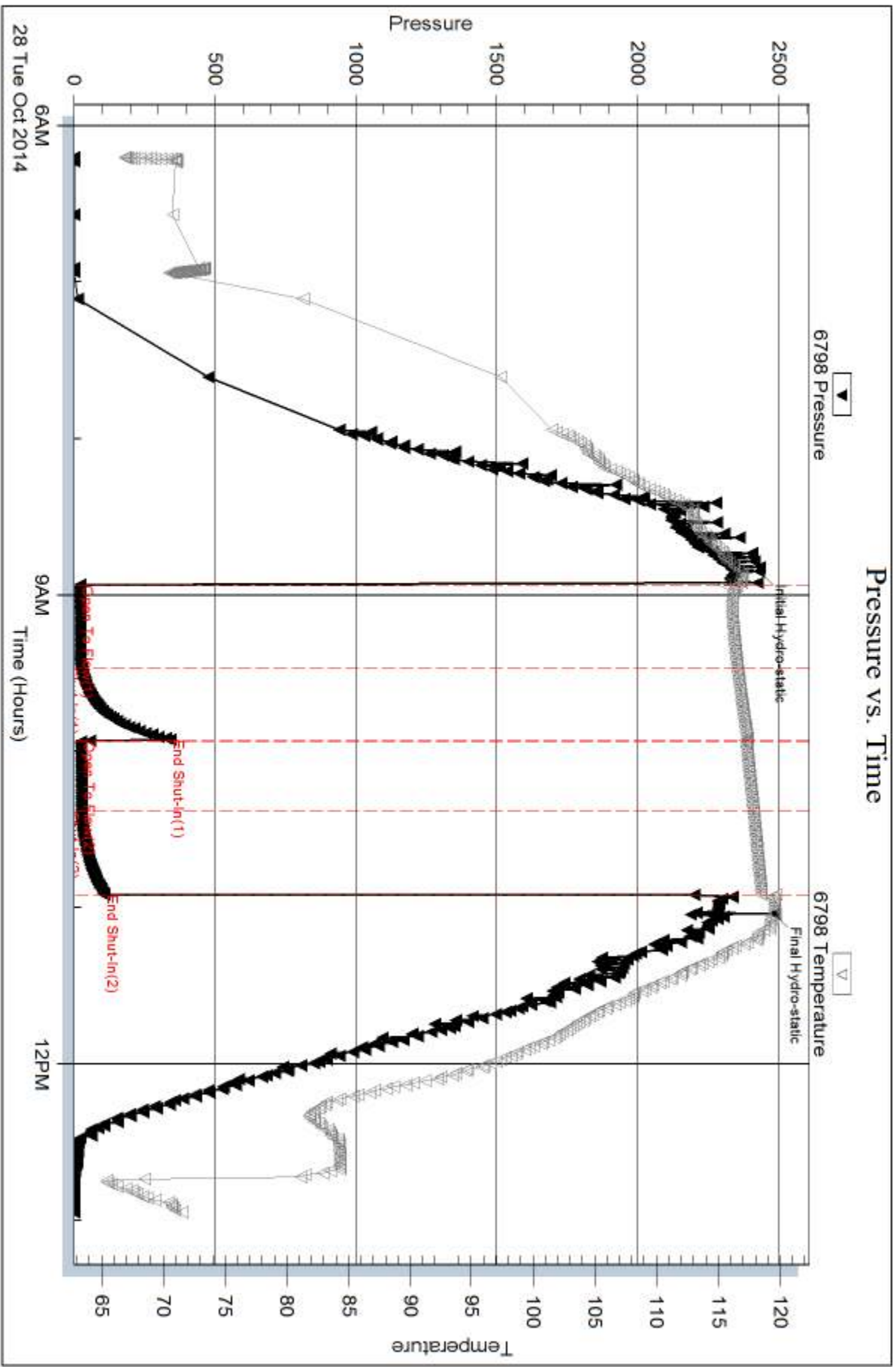
Serial #: 6798

Inside

American Warrior Inc

Isik-Finey #2-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57774

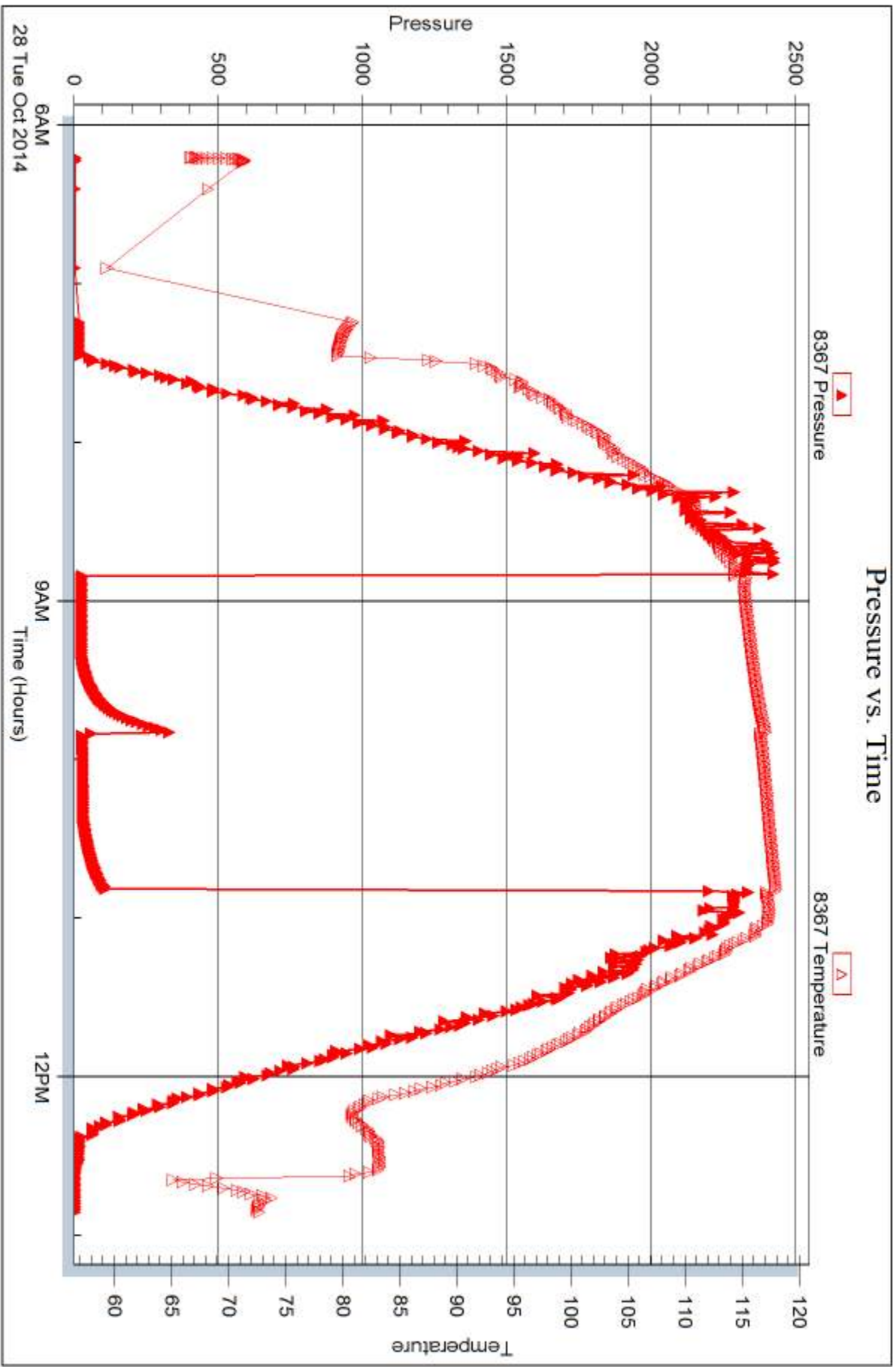
Printed: 2014, 10, 31 @ 09:22:10

Serial #: 8367

Outside American Warrior Inc

Isik-Finney #2-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57774

Printed: 2014, 10, 31 @ 09:22:11



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Irsik-Finney #2-23**

#### **23-24S-31W Finney,KS**

Start Date: 2014.10.28 @ 22:58:41

End Date: 2014.10.29 @ 06:54:11

Job Ticket #: 57775                      DST #: 2

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

Printed: 2014.10.31 @ 09:20:07





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**23-24S-31W Finney,KS**

**Irsik-Finney #2-23**

Job Ticket: 57775

**DST#: 2**

Test Start: 2014.10.28 @ 22:58:41

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:03:56  
 Time Test Ended: 06:54:11  
 Interval: **4898.00 ft (KB) To 4948.00 ft (KB) (TVD)**  
 Total Depth: 4948.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 2881.00 ft (KB)  
 2870.00 ft (CF)  
 KB to GR/CF: 11.00 ft

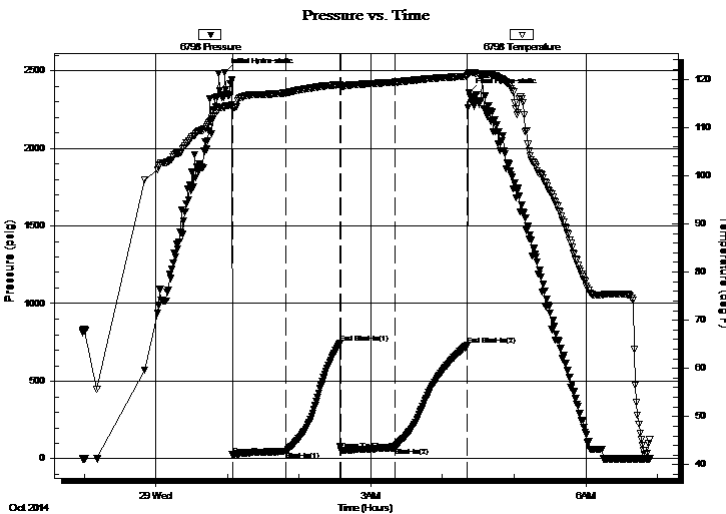
## Serial #: 6798

Inside

Press@RunDepth: 74.76 psig @ 4899.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.28 End Date: 2014.10.29 Last Calib.: 2014.10.29  
 Start Time: 22:58:42 End Time: 06:54:11 Time On Btm: 2014.10.29 @ 00:57:26  
 Time Off Btm: 2014.10.29 @ 04:22:26

TEST COMMENT: IF: Fair Blow , BOB in 22 minutes  
 IS: No Blow Back  
 FF: Fair Blow , BOB in 8 minutes  
 FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.77	114.16	Initial Hydro-static
7	25.51	114.12	Open To Flow (1)
52	48.24	117.14	Shut-In(1)
97	746.81	118.86	End Shut-In(1)
98	56.37	118.58	Open To Flow (2)
143	74.76	119.35	Shut-In(2)
204	731.10	120.59	End Shut-In(2)
205	2355.38	121.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	OCM 40%O 60%M	2.10

\* 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: Kevin Timson

**23-24S-31W Finney,KS**

**Irsik-Finney #2-23**

Job Ticket: 57775

**DST#: 2**

Test Start: 2014.10.28 @ 22:58:41

## Tool Information

Drill Pipe:	Length: 4893.00 ft	Diameter: 3.80 inches	Volume: 68.64 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 68.64 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4898.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4877.00	
Hydraulic tool	5.00			4882.00	
Jars	5.00			4887.00	
Safety Joint	2.00			4889.00	
Packer	5.00			4894.00	26.00 Bottom Of Top Packer
Packer	4.00			4898.00	
Stubb	1.00			4899.00	
Recorder	0.00	6798	Inside	4899.00	
Recorder	0.00	8367	Outside	4899.00	
Perforations	7.00			4906.00	
Change Over Sub	1.00			4907.00	
Drill Pipe	32.00			4939.00	
Change Over Sub	1.00			4940.00	
Perforations	5.00			4945.00	
Bullnose	3.00			4948.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**23-24S-31W Finney,KS**  
**Irsik-Finney #2-23**  
Job Ticket: 57775      **DST#: 2**  
Test Start: 2014.10.28 @ 22:58:41

## Mud and Cushion Information

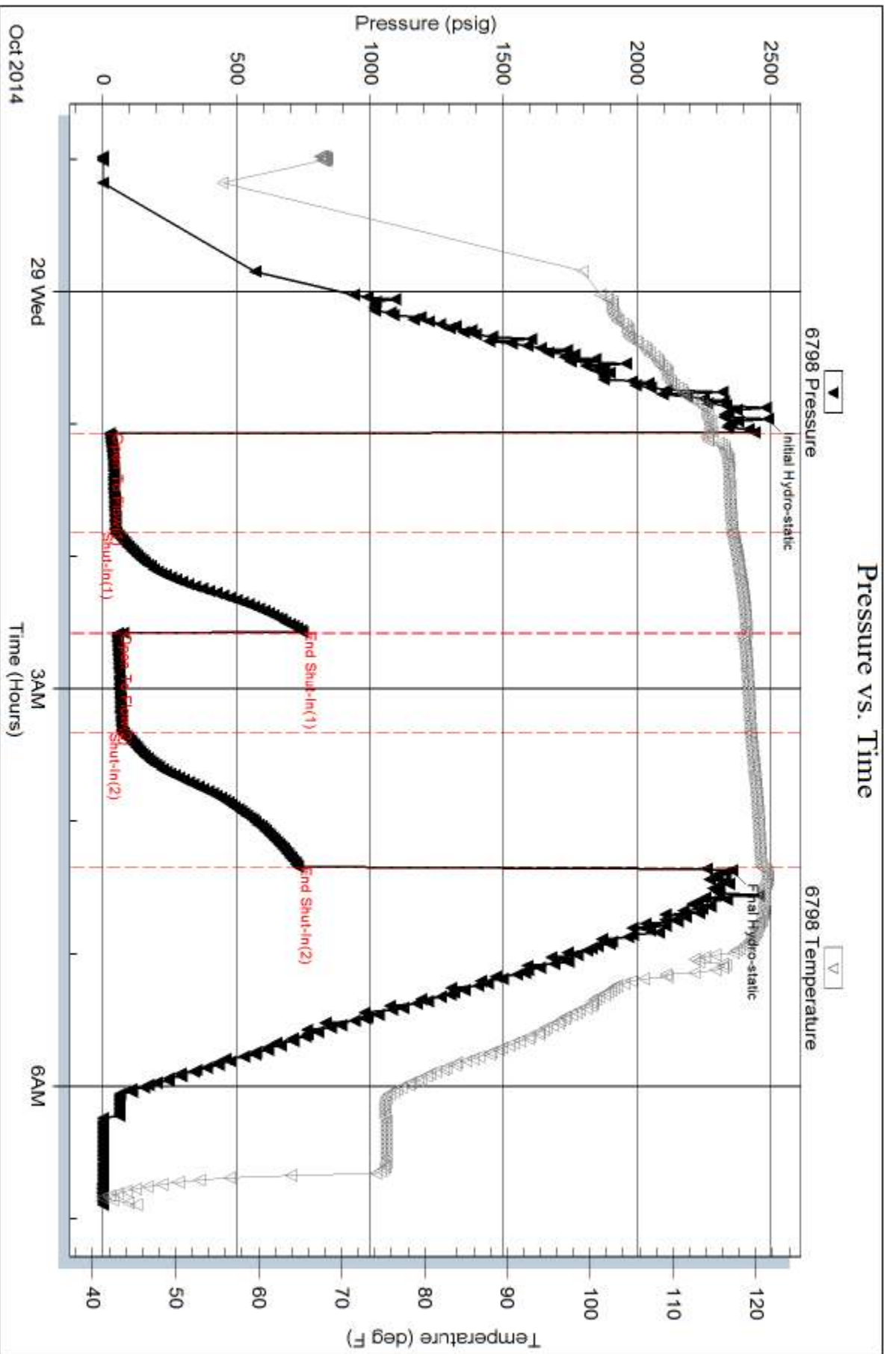
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	OCM 40%O 60%M	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

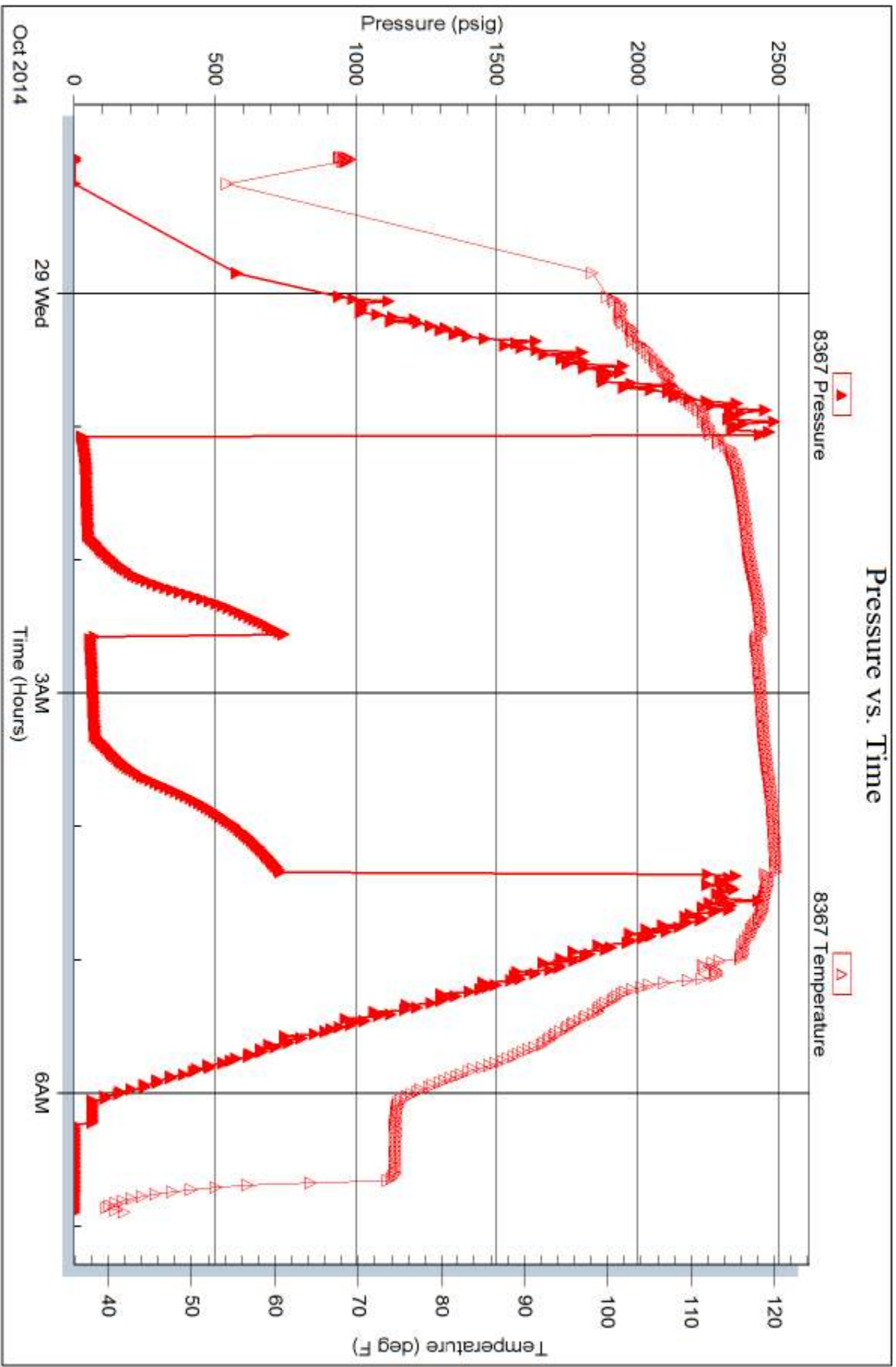


Serial #: 8367

Outside American Warrior Inc

Irsik-Finney #2-23

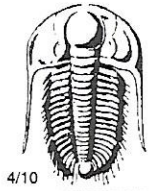
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57775

Printed: 2014, 10, 31 @ 09:20:08



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57774

Well Name & No. Irsik - Finney 2-23 Test No. 1 Date 10/28/14  
 Company American warrior INC Elevation 2881 KB 2870 GL  
 Address Po Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke 10  
 Location: Sec. 23 Twp. 24 S Rge. 31 W Co. Finney State KS

Interval Tested 4840 - 4887 Zone Tested Morrow  
 Anchor Length 47 Drill Pipe Run 4831 Mud Wt. 9.3  
 Top Packer Depth 4835 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 4840 Wt. Pipe Run 0 WL 9.2  
 Total Depth 4887 Chlorides 3100 ppm System LCM 2

Blow Description IF: weak 1/4 inch Blow  
ISI: NO BLOW BACK  
FF: weak surface Blow  
FST: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				

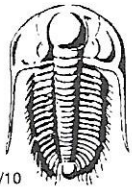
Rec Total 10 BHT 120 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 2432  Test 1250 T-On Location 04:00  
 (B) First Initial Flow 22  Jars 250 T-Started 06:12  
 (C) First Final Flow 26  Safety Joint 75 T-Open 08:56  
 (D) Initial Shut-In 342  Circ Sub \_\_\_\_\_ T-Pulled 10:55  
 (E) Second Initial Flow 26  Hourly Standby \_\_\_\_\_ T-Out 12:57  
 (F) Second Final Flow 28  Mileage 240 95rt 147.25 Comments Motel  
 (G) Final Shut-In 108  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2485  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 30  Accessibility \_\_\_\_\_  
 Sub Total 1722.25

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. 57775

Well Name & No. Ipsik - Finney 2-23 Test No. 2 Date 10/28/14  
 Company American warrior inc Elevation 2881 KB 2870 GL  
 Address PO BOX 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke 10  
 Location: Sec. 23 Twp. 24S Rge. 31W Co. Finney State KS

Interval Tested 4898 - 4948 Zone Tested Mississippi  
 Anchor Length 50 Drill Pipe Run 4893 Mud Wt. 9.3  
 Top Packer Depth 4893 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 4898 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4948 Chlorides 1800 ppm System LCM 3  
 Blow Description IF: Fair Blow, BOB in 22 minutes  
ISI: NO Blow BACK  
FF: Fair Blow, BOB in 8 minutes  
FSI: NO Blow BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>OCM</u>		<u>40</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 120 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic	<u>2489</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>22:15</u>
(B) First Initial Flow	<u>25</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>22:58</u>
(C) First Final Flow	<u>48</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>01:03</u>
(D) Initial Shut-In	<u>747</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>04:20</u>
(E) Second Initial Flow	<u>56</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>06:54</u>
(F) Second Final Flow	<u>75</u>	<input checked="" type="checkbox"/> Mileage	<u>240</u> 147.25	Comments	
(G) Final Shut-In	<u>731</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2355</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>45</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>45</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1722.25</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1722.25</u>		

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.