



## DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Clark Trust #1-36**

#### **36-24s-31w Finney,KS**

Start Date: 2014.11.10 @ 04:05:46

End Date: 2014.11.10 @ 10:25:01

Job Ticket #: 59704                      DST #: 1

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

Printed: 2014.11.14 @ 11:50:05







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior

**36-24s-31w Finney,KS**

PO Box 399  
Garden City, KS 67846

**Clark Trust #1-36**

Job Ticket: 59704

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.11.10 @ 04:05:46

## Tool Information

Drill Pipe:	Length: 4831.00 ft	Diameter: 3.80 inches	Volume: 67.77 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 67.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4848.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 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			4821.00	
Shut In Tool	5.00			4826.00	
Hydraulic tool	5.00			4831.00	
Jars	5.00			4836.00	
Safety Joint	3.00			4839.00	
Packer	5.00			4844.00	28.00 Bottom Of Top Packer
Packer	4.00			4848.00	
Stubb	1.00			4849.00	
Recorder	0.00	6771	Inside	4849.00	
Recorder	0.00	8844	Outside	4849.00	
Perforations	11.00			4860.00	
Change Over Sub	1.00			4861.00	
Drill Pipe	32.00			4893.00	
Change Over Sub	1.00			4894.00	
Bullnose	5.00			4899.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**36-24s-31w Finney,KS**

PO Box 399  
Garden City, KS 67846

**Clark Trust #1-36**

Job Ticket: 59704

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.11.10 @ 04:05:46

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Heavy thick mud 100%m	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

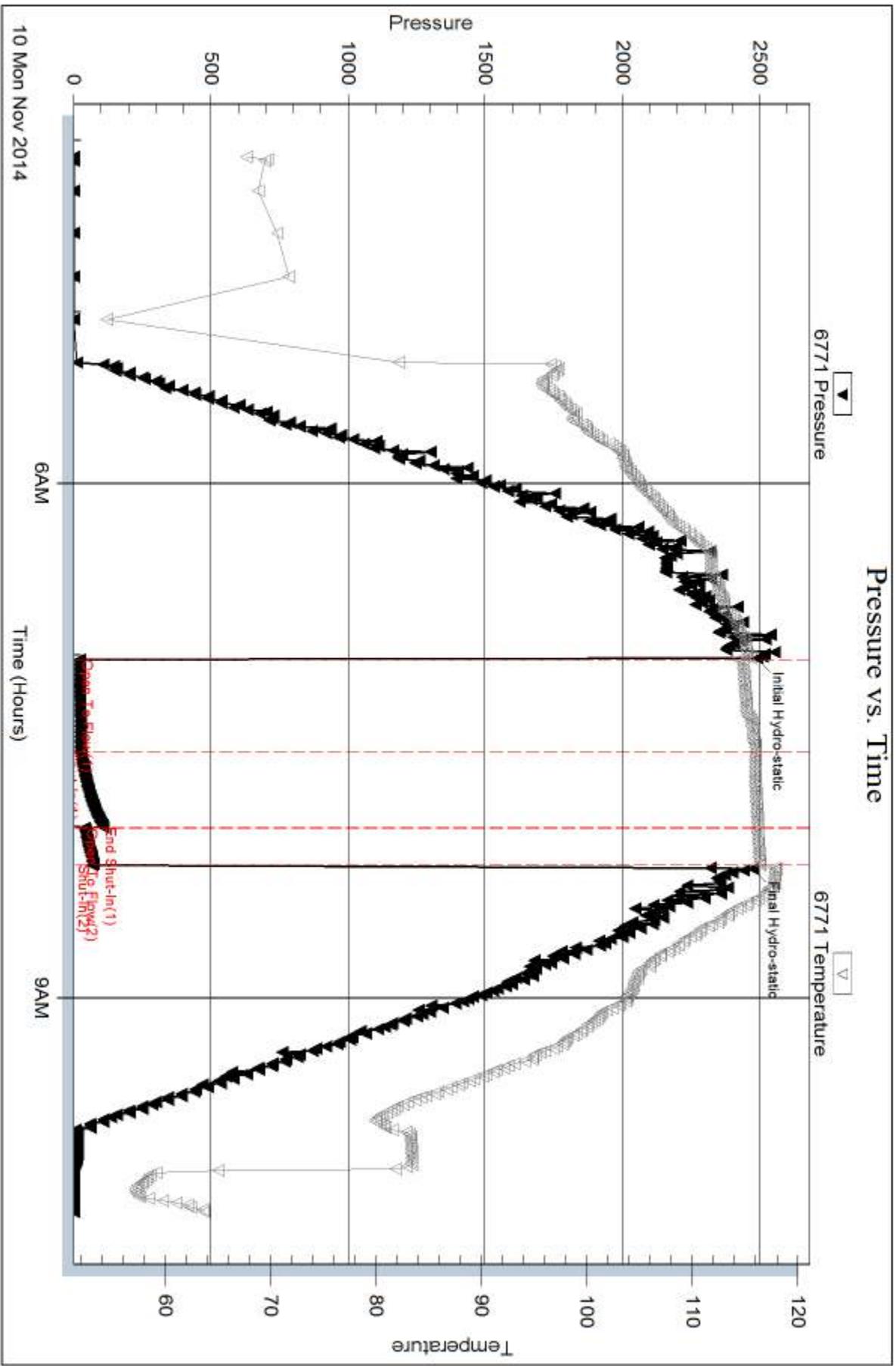
Serial #: 6771

Inside

American Warrior

Clark Trust #1-36

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59704

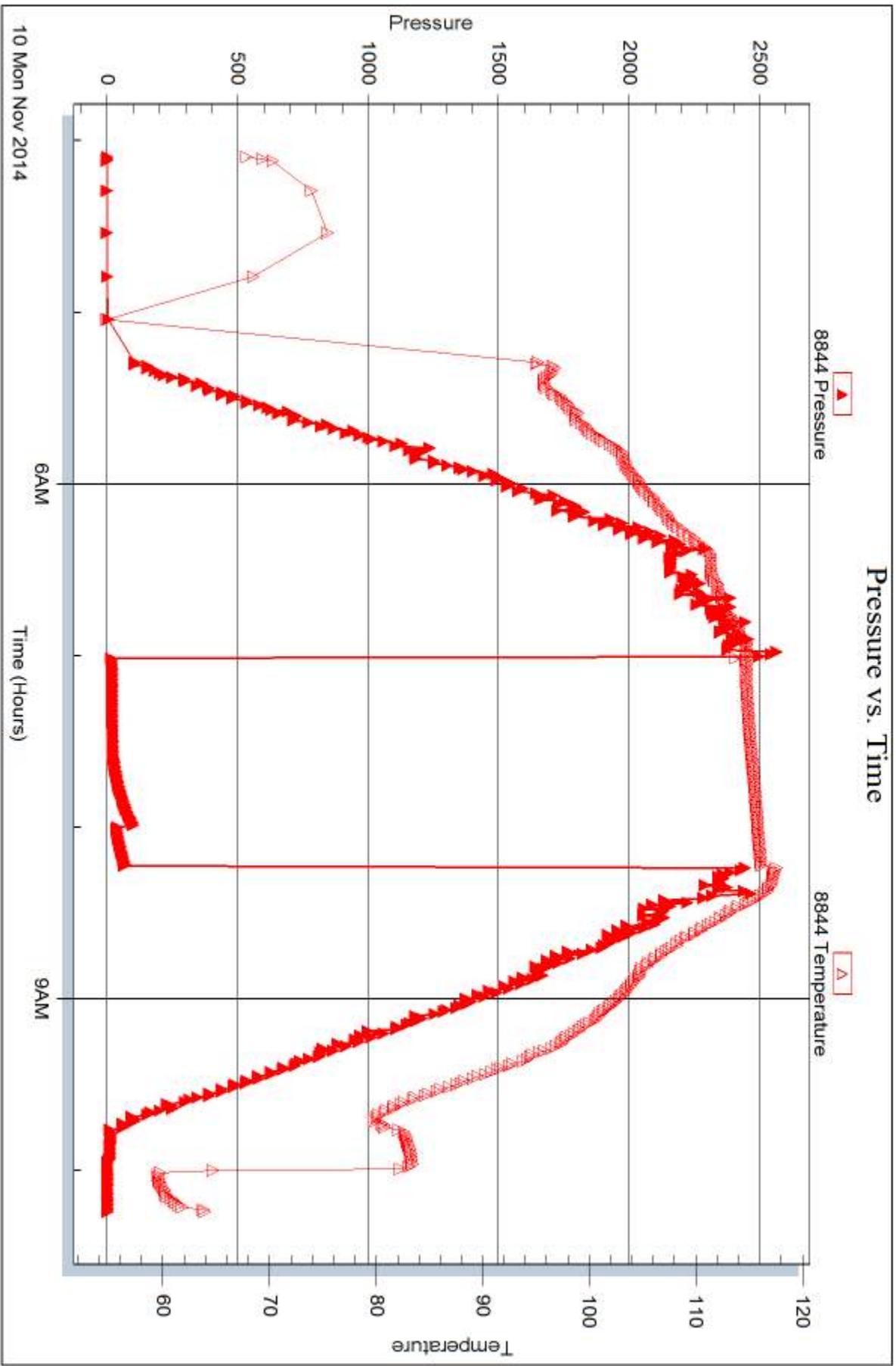
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Serial #: 8844

Outside American Warrior

Clark Trust #1-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59704

Printed: 2014.11.14 @ 11:50:06



## DRILL STEM TEST REPORT

Prepared For: **American Warrior**  
PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Clark Trust #1-36**

### **36-24s-31w Finney,KS**

Start Date: 2014.11.10 @ 22:11:03

End Date: 2014.11.11 @ 05:25:03

Job Ticket #: 59705                      DST #: 2

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

Printed: 2014.11.14 @ 11:49:47



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**36-24s-31w Finney, KS**

**Clark Trust #1-36**

Job Ticket: 59705      **DST#: 2**  
Test Start: 2014.11.10 @ 22:11:03

## GENERAL INFORMATION:

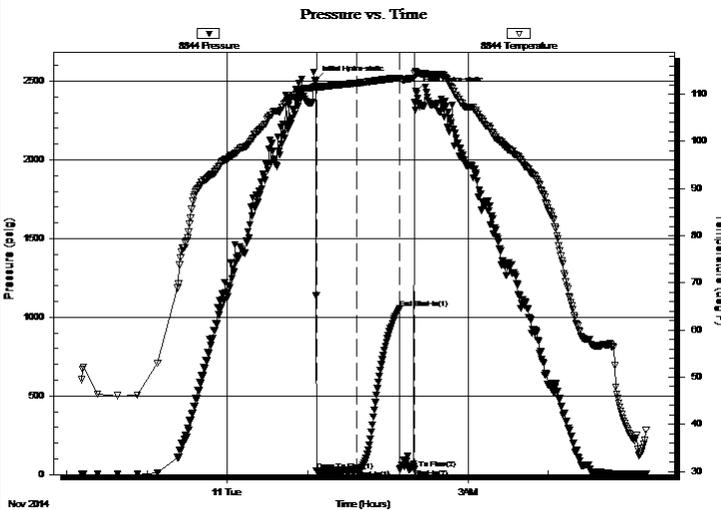
Formation: **Morrow**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 01:06:33  
Time Test Ended: 05:25:03  
Interval: **4849.00 ft (KB) To 4913.00 ft (KB) (TVD)**  
Total Depth: 4913.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2865.00 ft (KB)  
2855.00 ft (CF)  
KB to GR/CF: 10.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Shane McBride  
Unit No: 55

## Serial #: 8844      Outside

Press@RunDepth: 27.91 psig @ 4850.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.11.10      End Date: 2014.11.11      Last Calib.: 2014.11.11  
Start Time: 22:11:03      End Time: 05:13:03      Time On Btm: 2014.11.11 @ 01:05:48  
Time Off Btm: 2014.11.11 @ 02:21:03

TEST COMMENT: 1/4" in blow died in 24 min.  
No return  
No blow, pull tool after 10 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2503.26	111.67	Initial Hydro-static
1	22.89	111.04	Open To Flow (1)
31	27.91	112.31	Shut-In(1)
63	1053.92	113.44	End Shut-In(1)
64	35.35	113.13	Open To Flow (2)
74	34.11	113.36	Shut-In(2)
76	2438.25	114.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud heavy thick 100%m	0.07

\* Recovery from multiple tests

## Gas Rates

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





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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior

**36-24s-31w Finney,KS**

PO Box 399  
Garden City, KS 67846

**Clark Trust #1-36**

Job Ticket: 59705

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.11.10 @ 22:11:03

## Tool Information

Drill Pipe:	Length: 4831.00 ft	Diameter: 3.80 inches	Volume: 67.77 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 67.77 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	4849.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	92.00 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			4822.00	
Shut In Tool	5.00			4827.00	
Hydraulic tool	5.00			4832.00	
Jars	5.00			4837.00	
Safety Joint	3.00			4840.00	
Packer	5.00			4845.00	28.00 Bottom Of Top Packer
Packer	4.00			4849.00	
Stubb	1.00			4850.00	
Recorder	0.00	6771	Inside	4850.00	
Recorder	0.00	8844	Outside	4850.00	
Perforations	24.00			4874.00	
Change Over Sub	1.00			4875.00	
Drill Pipe	32.00			4907.00	
Change Over Sub	1.00			4908.00	
Bullnose	5.00			4913.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 92.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**36-24s-31w Finney,KS**  
**Clark Trust #1-36**  
Job Ticket: 59705      **DST#: 2**  
Test Start: 2014.11.10 @ 22:11:03

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

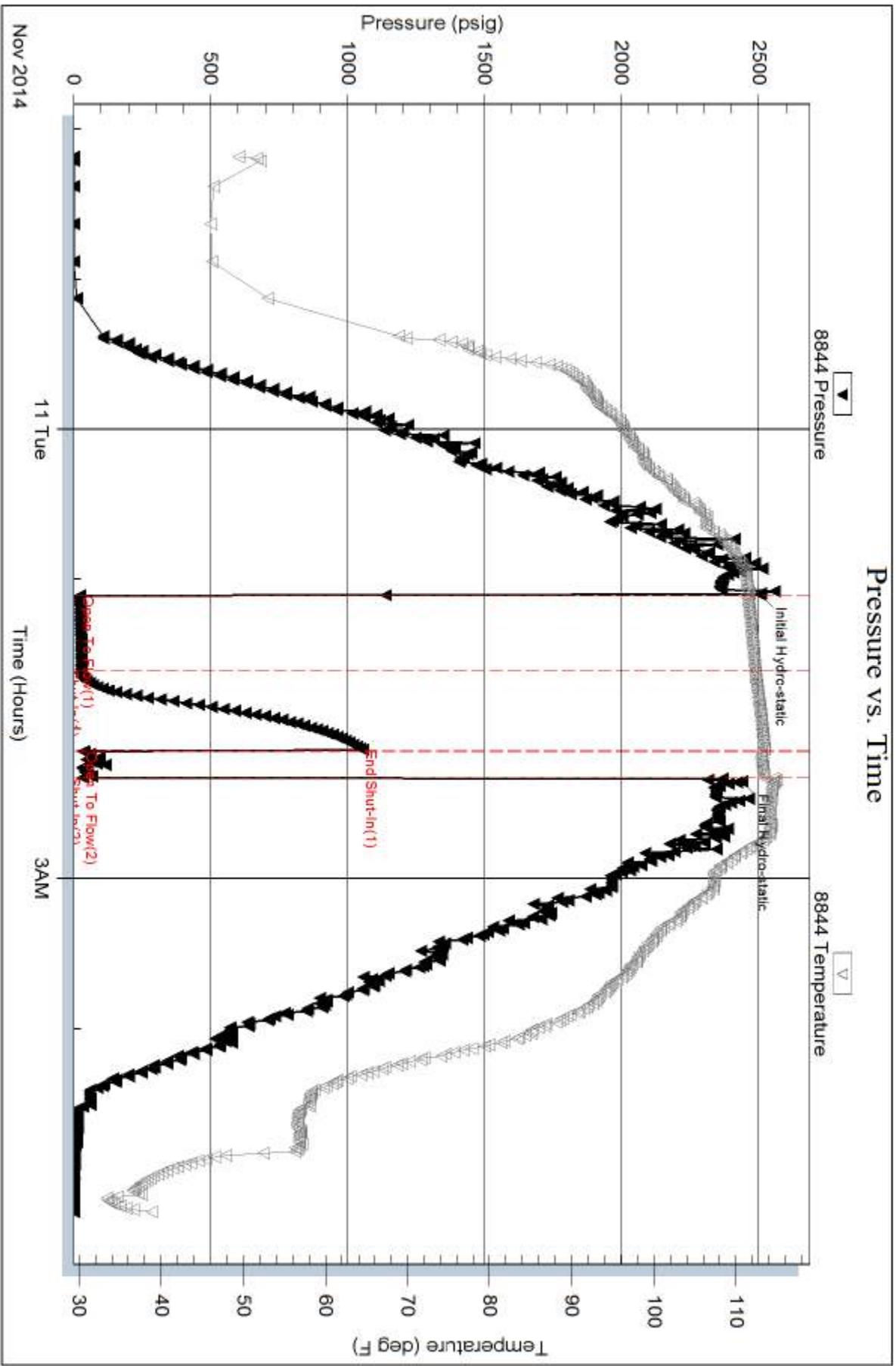
Length ft	Description	Volume bbl
5.00	mud heavy thick 100%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



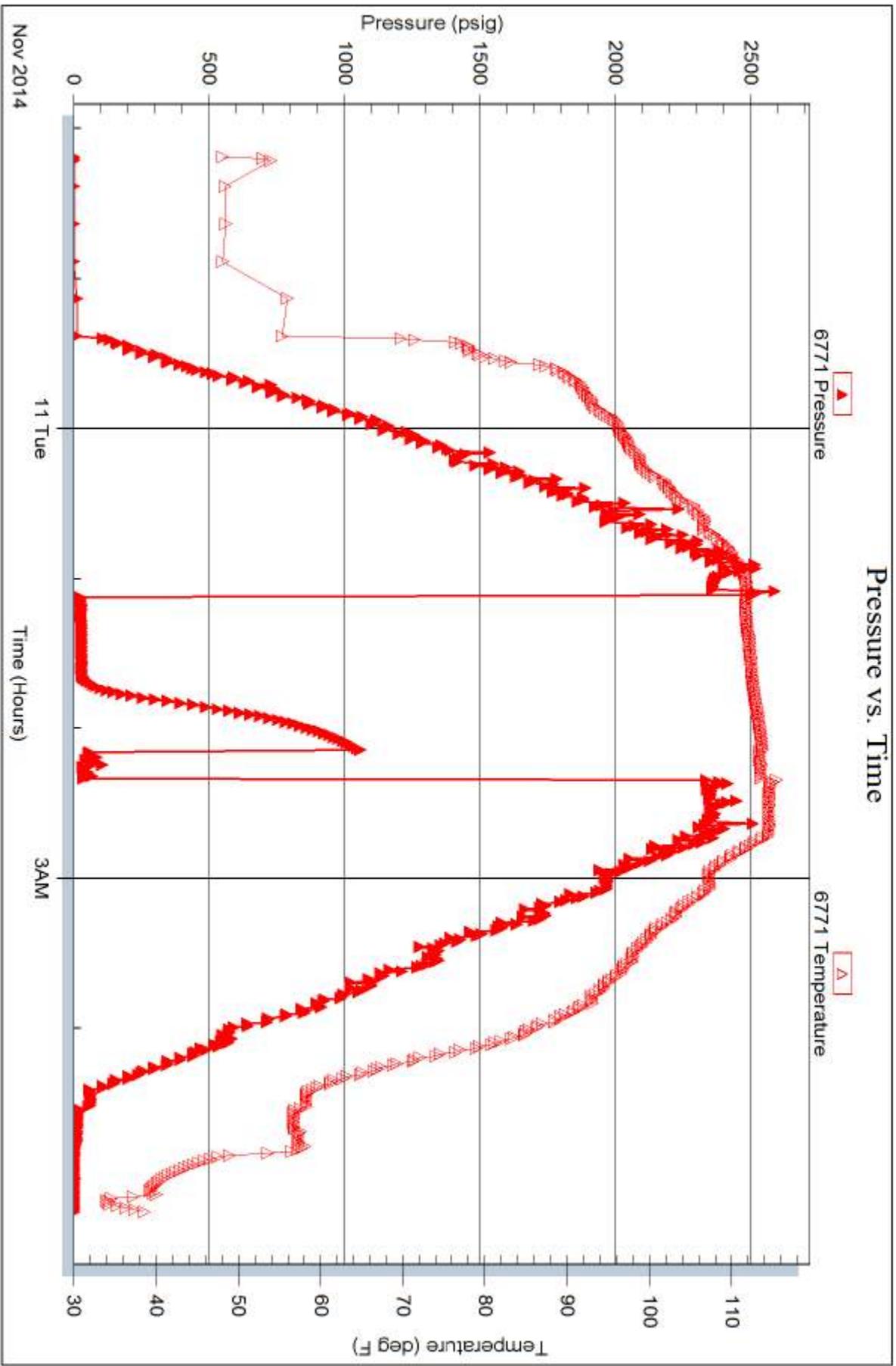
Serial #: 6771

Inside

American Warrior

Clark Trust #1-36

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59705

Printed: 2014.11.14 @ 11:49:48



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59704

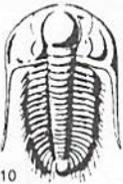
Well Name & No. Chark Trust # 1-36 Test No. #1 Date 11/10/14  
 Company American Warrior Inc. Elevation 2865 KB 2854 GL  
 Address P.O. Box 379 3118 Cummings Rd Garden City, KS 67846  
 Co. Rep / Geo Kevin Timson Rig Duke #10  
 Location: Sec. 36 Twp. 24 Rge. 31 Co. Finney State KS

Interval Tested 4848 4899 Zone Tested Morrow  
 Anchor Length 51 Drill Pipe Run 4831 Mud Wt. 9.5  
 Top Packer Depth 4843 Drill Collars Run — Vis 51  
 Bottom Packer Depth 4848 Wt. Pipe Run — WL 10.4  
 Total Depth 4899 Chlorides 1600 ppm System LCM #2  
 Blow Description 1/4" in @ open, died in 28 min.  
No return  
No blow pull tool after 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Mud (Heavy Thick)</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 2' BHT 118' Gravity — API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2488  Test 1250 T-On Location 03:20  
 (B) First Initial Flow 22  Jars 250 T-Started 04:05  
 (C) First Final Flow 25  Safety Joint 75 T-Open 07:00  
 (D) Initial Shut-In 107  Circ Sub N/C T-Pulled 08:10  
 (E) Second Initial Flow 38  Hourly Standby — T-Out 10:25  
 (F) Second Final Flow 67  Mileage 106 RT 164.30 Comments —  
 (G) Final Shut-In —  Sampler —  
 (H) Final Hydrostatic 2472  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1739.30  
 Accessibility — MP/DST Disc't —  
 Sub Total 1739.30

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. 59705

Well Name & No. Clark Trust #1-36 Test No. #2 Date 11/11/14  
 Company American Warrior Inc Elevation 2865 KB 2855 GL  
 Address PO Box 399, 3118 Cummings Rd Garden City, KS 67846  
 Co. Rep / Geo. Kevin Tomson Rig Duke #10  
 Location: Sec. 36 Twp. 24 S Rge. 31 W Co. Finney State KS

Interval Tested 4849 4913 Zone Tested Morrow  
 Anchor Length 64 Drill Pipe Run 4831 Mud Wt. 9.5  
 Top Packer Depth 4844 Drill Collars Run — Vis 55  
 Bottom Packer Depth 4849 Wt. Pipe Run — WL 9.4  
 Total Depth 4913 Chlorides 2600 ppm System LCM #1

Blow Description 1/4 in @ open died in 24 min  
No return  
No blow - pull tool after 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>mud (heavy thick)</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 5' BHT 115° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2503</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>21:45</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:10</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:06</u>
(D) Initial Shut-In <u>1053</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>02:14</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:25</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>104 RT</u> 164.30	Comments <u>Released</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler 164.30	<u>11/12/14 10:30 AM</u>
(H) Final Hydrostatic <u>2438</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>—</u>	<input type="checkbox"/> Day Standby	Total <u>1903.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1903.60</u>	

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

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