



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1110486

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# **Geological Report**

American Warrior, Inc.

## **Ruff #1-12 Twin**

1126' FSL & 2299' FWL

Sec. 12, T22s, R22w

Hodgeman County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Ruff #1-12 Twin  
1126' FSL & 2299' FWL  
Sec. 12, T22s, R22w  
Hodgeman County, Kansas  
API # 15-083-21874-0000

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: December 27, 2012

Completion Date: January 4, 2013

Elevation 2151' Ground Level  
2162' Kelly Bushing

Directions: From Hanston, KS. Go East on Hwy 156 1 mile to 229 Rd. Go North 1.2 miles on 229 Rd. and East into location.

Casing: #28 8 5/8" surface casing set @ 1184' with 450 sacks Class A, 3% c.c, 2% gel.

Samples: 4300' to RTD 10' wet and dry,

Drilling Time: 4300' to RTD

Electric Logs: None

Drillstem Tests: Two Trilobite Testing "Andy Carreira"

Remarks: None

## Formation Tops

### Formation

Fort Scott  
Cherokee  
Miss Osage  
RTD

American Warrior, Inc.

Ruff #1-12 Twin

Sec. 12, T22s, R22w

1126' FSL & 2299' FWL

4315' -2153

4341' -2179

4392' -2230

4398' -2236

## Sample Zone Descriptions

**Mississippian Osage (4392', -2230):** Covered in DST #1 and DST #2

Δ-wt. Triptolitic. Fair to good stain. Poor saturation. Show of free oil. Fair odor.

**Drill Stem Tests**  
Trilobite Testing Inc.  
“Andy Carreira”

**DST #1**

**Mississippian Osage**

Interval (4356' – 4395') Anchor Length 39'

IHP	- 2231 #	
IFP	- 30" – Built to ½" decreased to WSB	19-32 #
ISI	- 30" – No Return	1174 #
FFP	- 30" – No Blow	36-41 #
FSIP	- 30" – No Return	1120 #
FHP	- 2134 #	
BHT	- Not Recorded	

Recovery: 10' Mud with oil specks in tool

**DST #2**

**Mississippian Osage**

Interval (4357' – 4398') Anchor Length 41'

IHP	- 2168#	
IFP	- 45" – Surface blow built to 6"	24-78 #
ISI	- 45" – No Return	1283 #
FFP	- 45" – Surface blow built to 5"	85-129 #
FSIP	- 45" – No Return	1261 #
FHP	- 2130#	
BHT	- Not Recorded	

Recovery: 1' CO  
200' SOSMW (Trace O, 80% Water, 20% Mud)

## Structural Comparison

	<p style="text-align: center;">American Warrior, Inc.  <b>Ruff #1-12 Twin</b>                  Sec. 12, T22s, R22w                  1126' FSL &amp; 2299' FWL</p>		<p style="text-align: center;">American Warrior, Inc.                  Ruff #1-12                  Sec. 12, T22s, R22w                  1042' FSL &amp; 2234' FWL</p>
<b>Formation</b>	<p>4315' -2153</p> <p>4341' -2179</p> <p>4392' -2230</p>	<p>-1</p> <p>-2</p> <p>-3</p>	<p>4314' -2152</p> <p>4339' -2177</p> <p>4389' -2227</p>
<p>Fort Scott</p> <p>Cherokee</p> <p>Miss Osage</p>			

## Summary

The location for the Ruff #1-12 Twin well was found via geo 3-D Seismic survey. Two drill stem tests were conducted, which were negative. After all the gathered data had been examined the decision was made to plug and abandon the Ruff #1-12 Twin well.

Respectfully Submitted,

Kevin Timson  
 American Warrior, Inc.





# ALLIED OIL & GAS SERVICES, LLC 059218

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend, KS

DATE <u>1-4-13</u>	SEC. <u>12</u>	TWP. <u>L2S</u>	RANGE <u>22W</u>	CALLED OUT <u>7:30 PM</u>	ON LOCATION <u>9:15 PM</u>	JOB START <u>12:30 AM</u>	JOB FINISH <u>1:30 AM</u>
LEASE <u>Ruff</u>		WELL # <u>1-12 R with</u>		LOCATION <u>Houston East mile. North on 22nd 1.25 mi. East into location.</u>		COUNTY <u>Hodgeman</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Duke 5  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8" T.D. 3800 ft  
 CASING SIZE 8 5/8" 28" DEPTH 1184  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2" 16.6# DEPTH 1214 ft  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT Fresh Water

OWNER  American Warrior  
 CEMENT AMOUNT ORDERED 170 sy 60/40 + 4% 60/4 + 25% Flo-Seal

EQUIPMENT

PUMP TRUCK # <u>398</u>	CEMENTER <u>Charles Ekins</u>	<u>1</u>
BULK TRUCK # <u>344/170</u>	HELPER <u>Trint Hall</u>	<u>2</u>
BULK TRUCK # _____	DRIVER <u>Joel Menchen</u>	<u>2</u>
BULK TRUCK # _____	DRIVER _____	_____

COMMON	<u>102</u>	@ <u>17.90</u>	<u>1825.80</u>
POZMIX	<u>68</u>	@ <u>9.35</u>	<u>635.80</u>
GEL	<u>6</u>	@ <u>23.40</u>	<u>140.40</u>
CHLORIDE	_____	@ _____	_____
ASC	_____	@ _____	_____
Flo Seal	<u>43</u>	@ <u>2.97</u>	<u>127.71</u>
HANDLING	<u>182.58</u>	@ <u>2.48</u>	<u>452.80</u>
MILEAGE	<u>7.62 X 40</u>	@ <u>2.60</u>	<u>792.48</u>
			TOTAL <u>3974.99</u>

REMARKS:  
Plug 1 @ 1214 ft: 6 FW, 12.5 cent, 10 FW (50 sy)  
Plug 2 @ 500 ft: 6 FW, 12.5 cent, 3 FW (50 sy)  
Plug 3 @ 600 ft: 5 cent (20 sy)  
Plug RH with 7.56 cent (30 sy)  
Plug LH with 5.61 cent (20 sy)

304.80

SERVICE

DEPTH OF JOB	<u>1214 ft</u>	
PUMP TRUCK CHARGE	<u>2249.84</u>	
EXTRA FOOTAGE	@ _____	_____
MILEAGE	<u>HVM 40</u>	@ <u>7.70</u> <u>308.00</u>
MANIFOLD	@ _____	_____
	<u>LVM 40</u>	@ <u>4.40</u> <u>176.00</u>

CHARGE TO: American Warrior  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 2733.84

**PLUG & FLOAT EQUIPMENT**

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 499.80  
 TOTAL CHARGES 6708.83  
 DISCOUNT 25% 1,677.21 IF PAID IN 30 DAYS  
5,031.62

PRINTED NAME KENNETH M. Sullivan  
 SIGNATURE Kenneth M Sullivan

# ALLIED OIL & GAS SERVICES, LLC 059214

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend, KS

DATE <u>12-28-12</u>	SEC. <u>12</u>	TWP. <u>22S</u>	RANGE <u>22W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>10:14 AM</u>	JOB START <u>2:02 PM</u>	JOB FINISH <u>3:05 PM</u>
LEASE <u>Ruff</u>		WELL # <u>#12 Twin</u>		LOCATION <u>1 East Houston, Non 22nd rd 1.25 mi. East into location</u>		COUNTY <u>Holmes</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				1.01 <span style="margin-left: 100px;">7.45</span>			

CONTRACTOR Duke J  
 TYPE OF JOB Surface Casing  
 HOLE SIZE 12 1/4" T.D. 1190 ft  
 CASING SIZE 8 7/8" 25' DEPTH 1174.45 ft  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 25 ft  
 CEMENT LEFT IN CSG. 25ft, 1.56 bbls, 6.5sf  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 72 bbls Fresh Water

OWNER American Warrior, Inc.  
 CEMENT AMOUNT ORDERED 450 sy A" + 3% Ccsl + 2% Gcl

EQUIPMENT

PUMP TRUCK # 398 CEMENTER Charles Elkins / HELPER Trint Hall 2  
 BULK TRUCK # 6101 DRIVER Dan Casper 2  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	450	@ 17.90	8,055.00
POZMIX		@	
GEL	9	@ 23.40	210.60
CHLORIDE	16	@ 64.00	1,024.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	487.50 X	@ 2.48	1,209.00
MILEAGE	22.2 X 40 X	2.60	2,308.80
TOTAL			12,807.40

REMARKS:  
Run 2 centralizers and locit basket.  
Rig up cement head.  
Pump 5 bbl Fresh Water, 107 bbls cement (450)  
Drop Plug & Displace with 72 bbls Fresh Water  
Leave 25ft, 1.56 bbls, 6.5sf cement in casing  
Circulate, 26 bbls, 106sf cement to surface

SERVICE

DEPTH OF JOB	1174		
PUMP TRUCK CHARGE	2213.75		
EXTRA FOOTAGE		@	
MILEAGE <u>Hum</u>	40	@ 7.70	308.00
MANIFOLD		@	
<u>Hum</u>	40	@ 4.40	176.00
		@	
TOTAL			2,697.75

CHARGE TO: American Warrior, Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

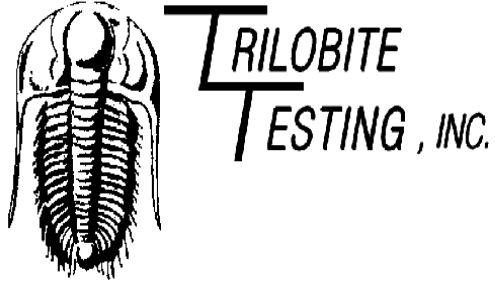
PLUG & FLOAT EQUIPMENT

<u>Weatherford (1 Head &amp; Manifold)</u>			
Centralizers 8 7/8"	2	@ 74.88	149.76
Cement Basket 8 7/8"	1	@ 559.35	559.35
8 7/8" Head & Manifold		@	
Wooden Plug 8 7/8"	1	@ 107.69	107.69
		@	
TOTAL			816.80

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)	752.91	
TOTAL CHARGES	16,321.75	
DISCOUNT	250	4,080.70
IF PAID IN 30 DAYS		12,241.05

PRINTED NAME KENNETH MCGUIRE  
 SIGNATURE Kenneth McGuire



## DRILL STEM TEST REPORT

Prepared For: **American Warrior inc.**

PO Box 399  
Garden City KS. 67846

ATTN: Kevin Timson

**Ruff #1-12 twin**

**12-22s-22w Hodgeman,KS**

Start Date: 2013.01.02 @ 10:06:05

End Date: 2013.01.02 @ 16:39:09

Job Ticket #: 51453                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.04 @ 11:43:30

American Warrior inc. 12-22s-22w Hodgeman,KS Ruff #1-12 twin DST # 1 Osage 2013.01.02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**12-22s-22w Hodgeman,KS**  
**Ruff #1-12 twin**  
Job Ticket: 51453      **DST#: 1**  
Test Start: 2013.01.02 @ 10:06:05

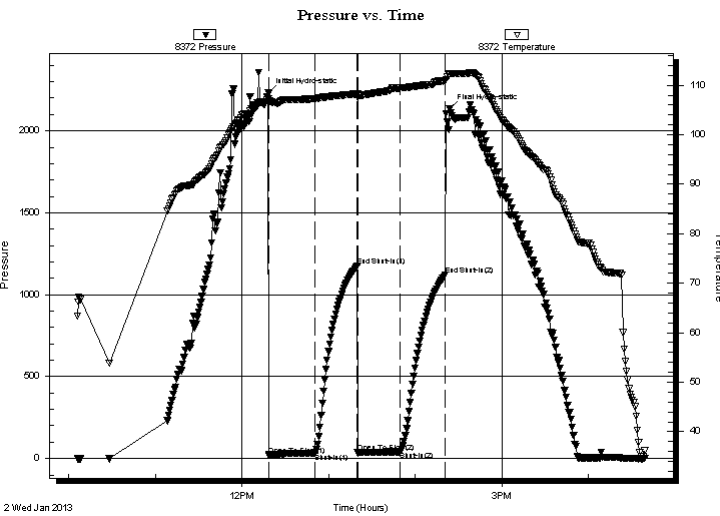
## GENERAL INFORMATION:

Formation: **Osage**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:18:40  
Time Test Ended: 16:39:09  
Interval: **4356.00 ft (KB) To 4395.00 ft (KB) (TVD)**  
Total Depth: 4395.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Andy Carreira  
Unit No: 39  
Reference Elevations: 2162.00 ft (KB)  
2151.00 ft (CF)  
KB to GR/CF: 11.00 ft

## Serial #: 8372 Outside

Press @ RunDepth: 41.92 psig @ 4360.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.01.02 End Date: 2013.01.02 Last Calib.: 2013.01.02  
Start Time: 10:06:05 End Time: 16:39:10 Time On Btm: 2013.01.02 @ 12:18:20  
Time Off Btm: 2013.01.02 @ 14:23:50

TEST COMMENT: IF:(30min) Weak blow built to 1/2" Decreased to weak surface blow  
IS:(30min) No Return  
FF:(30min) No Blow  
FS:(30min) No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.23	107.40	Initial Hydro-static
1	19.72	106.36	Open To Flow (1)
32	32.85	107.29	Shut-In(1)
62	1174.49	108.28	End Shut-In(1)
62	36.01	107.57	Open To Flow (2)
92	41.92	109.44	Shut-In(2)
123	1120.51	110.90	End Shut-In(2)
126	2134.27	112.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil spks in tool	0.05

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**12-22s-22w Hodgeman,KS**  
**Ruff #1-12 twin**  
Job Ticket: 51453      **DST#: 1**  
Test Start: 2013.01.02 @ 10:06:05

**Tool Information**

Drill Pipe:	Length: 4213.00 ft	Diameter: 3.80 inches	Volume: 59.10 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 288.00 ft	Diameter: 2.25 inches	Volume: 1.42 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 60.52 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	173.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4356.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	67.00 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	3.00			4347.00	
Packer	5.00			4352.00	28.00      Bottom Of Top Packer
Packer	4.00			4356.00	
Stubb	1.00			4357.00	
Perforations	2.00			4359.00	
Change Over Sub	1.00			4360.00	
Recorder	0.00	8844	Inside	4360.00	
Recorder	0.00	8372	Outside	4360.00	
Blank Spacing	31.00			4391.00	
Change Over Sub	1.00			4392.00	
Bullnose	3.00			4395.00	39.00      Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**12-22s-22w Hodgeman,KS**  
**Ruff #1-12 twin**  
Job Ticket: 51453      **DST#: 1**  
Test Start: 2013.01.02 @ 10:06:05

**Mud and Cushion Information**

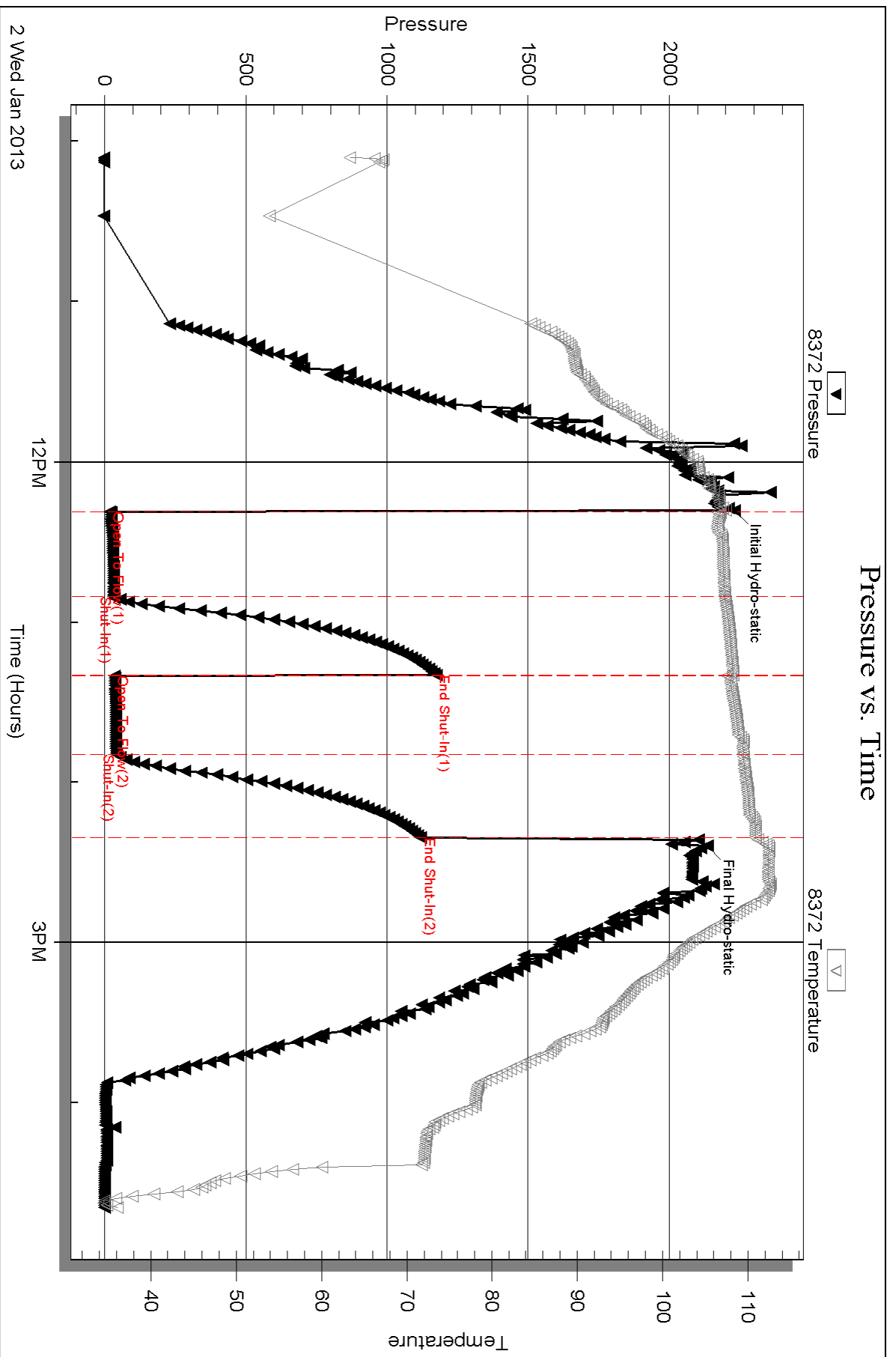
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8800.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w / oil spks in tool	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





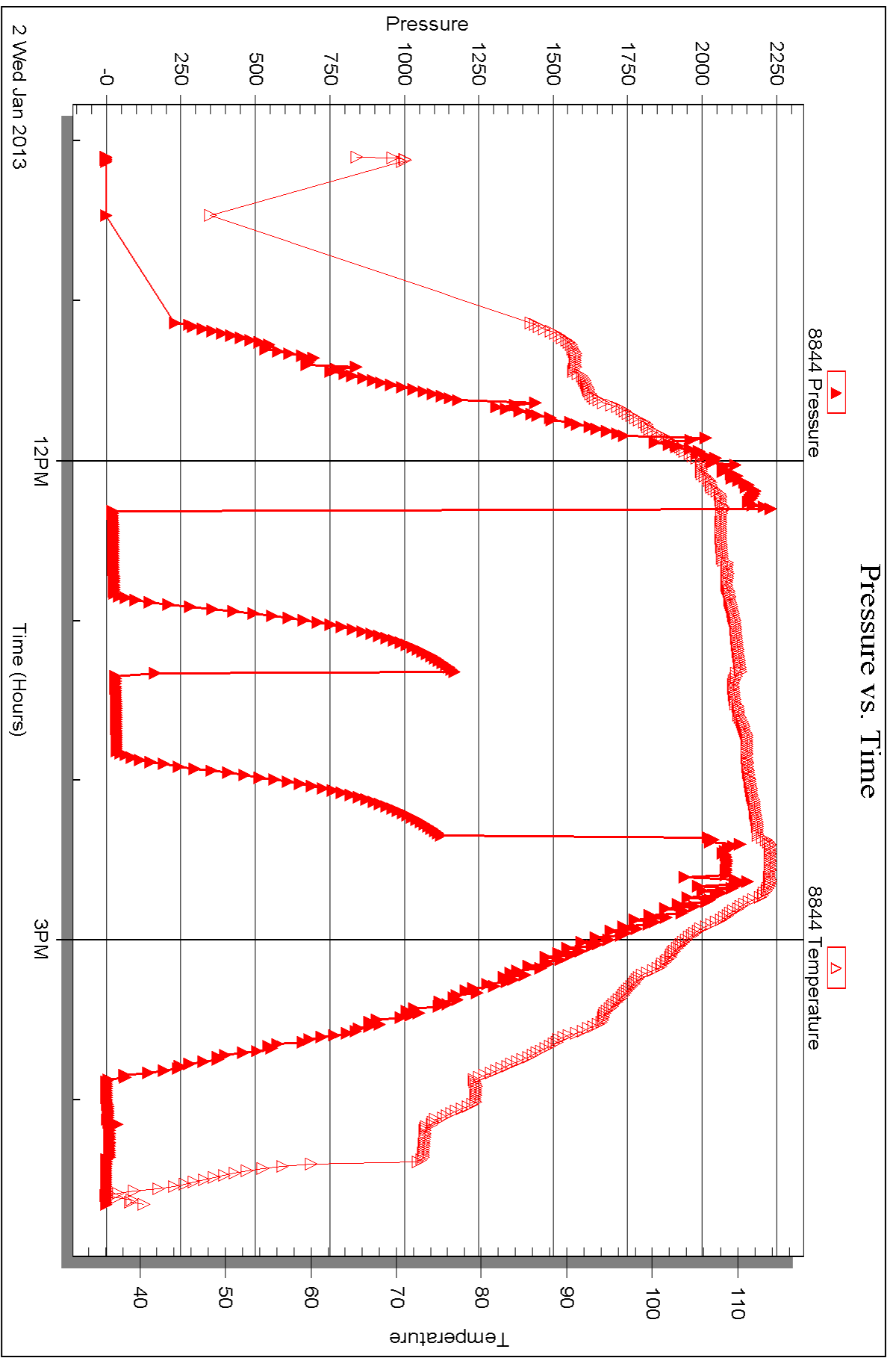
Serial #: 8844

Inside

American Warrior inc.

Ruff #1-12 tw in

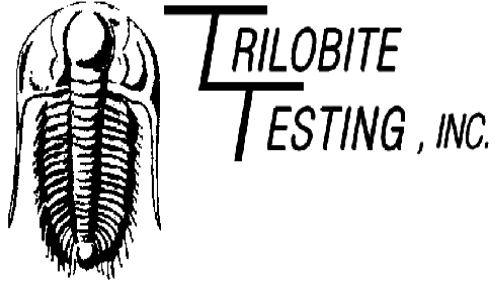
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51453

Printed: 2013.01.04 @ 11:43:35



## DRILL STEM TEST REPORT

Prepared For: **American Warrior inc.**

PO Box 399  
Garden City KS. 67846

ATTN: Kevin Timson

**Ruff #1-12 twin**

**12-22s-22w Hodgeman,KS**

Start Date: 2013.01.03 @ 04:28:05

End Date: 2013.01.03 @ 12:17:50

Job Ticket #: 51454                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.04 @ 11:38:14

American Warrior inc. 12-22s-22w Hodgeman,KS Ruff #1-12 twin DST # 2 Osage 2013.01.03



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

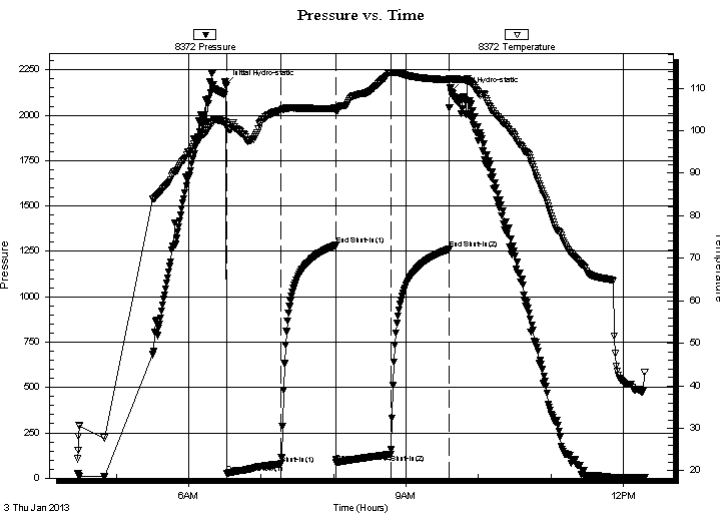
**12-22s-22w Hodgeman, KS**  
**Ruff #1-12 twin**  
Job Ticket: 51454      **DST#: 2**  
Test Start: 2013.01.03 @ 04:28:05

## GENERAL INFORMATION:

Formation: **Osage**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:31:30  
Time Test Ended: 12:17:50  
Interval: **4357.00 ft (KB) To 4398.00 ft (KB) (TVD)**  
Total Depth: 4398.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Andy Carreira  
Unit No: 39  
Reference Elevations: 2162.00 ft (KB)  
2151.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8372      Outside**  
Press @ RunDepth: 129.84 psig @ 4361.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.01.03      End Date: 2013.01.03      Last Calib.: 2013.01.03  
Start Time: 04:28:05      End Time: 12:17:50      Time On Btm: 2013.01.03 @ 06:30:50  
Time Off Btm: 2013.01.03 @ 09:37:20

**TEST COMMENT:** IF:(45min) 2" blow in 6 min. 3" in 12 min. 4" in 26 min. 5" in 32 min. Built to 6".  
ISl:(45min) No Return  
FF:(45min) 2" blow in 16 min. 3" in 21 min. 4" in 41 min. Built to 5".  
FSl:(45min) No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.45	101.99	Initial Hydro-static
1	24.84	100.79	Open To Flow (1)
46	78.30	104.81	Shut-In(1)
91	1283.49	105.32	End Shut-In(1)
92	85.41	104.86	Open To Flow (2)
137	129.84	113.60	Shut-In(2)
185	1261.37	111.99	End Shut-In(2)
187	2130.53	112.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
200.00	SOSMW o=tr m=20% w =80%	0.98
1.00	Oil	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**12-22s-22w Hodgeman,KS**  
**Ruff #1-12 twin**  
Job Ticket: 51454      **DST#: 2**  
Test Start: 2013.01.03 @ 04:28:05

**Tool Information**

Drill Pipe:	Length: 4240.00 ft	Diameter: 3.80 inches	Volume: 59.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 288.00 ft	Diameter: 2.25 inches	Volume: 1.42 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume: 60.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	199.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4357.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	69.00 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			4330.00	
Shut In Tool	5.00			4335.00	
Hydraulic tool	5.00			4340.00	
Jars	5.00			4345.00	
Safety Joint	3.00			4348.00	
Packer	5.00			4353.00	28.00      Bottom Of Top Packer
Packer	4.00			4357.00	
Stubb	1.00			4358.00	
Perforations	2.00			4360.00	
Change Over Sub	1.00			4361.00	
Recorder	0.00	8844	Inside	4361.00	
Recorder	0.00	8372	Outside	4361.00	
Blank Spacing	32.00			4393.00	
Change Over Sub	1.00			4394.00	
Perforations	1.00			4395.00	
Bullnose	3.00			4398.00	41.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>69.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**12-22s-22w Hodgeman,KS**  
**Ruff #1-12 twin**  
Job Ticket: 51454      **DST#: 2**  
Test Start: 2013.01.03 @ 04:28:05

## Mud and Cushion Information

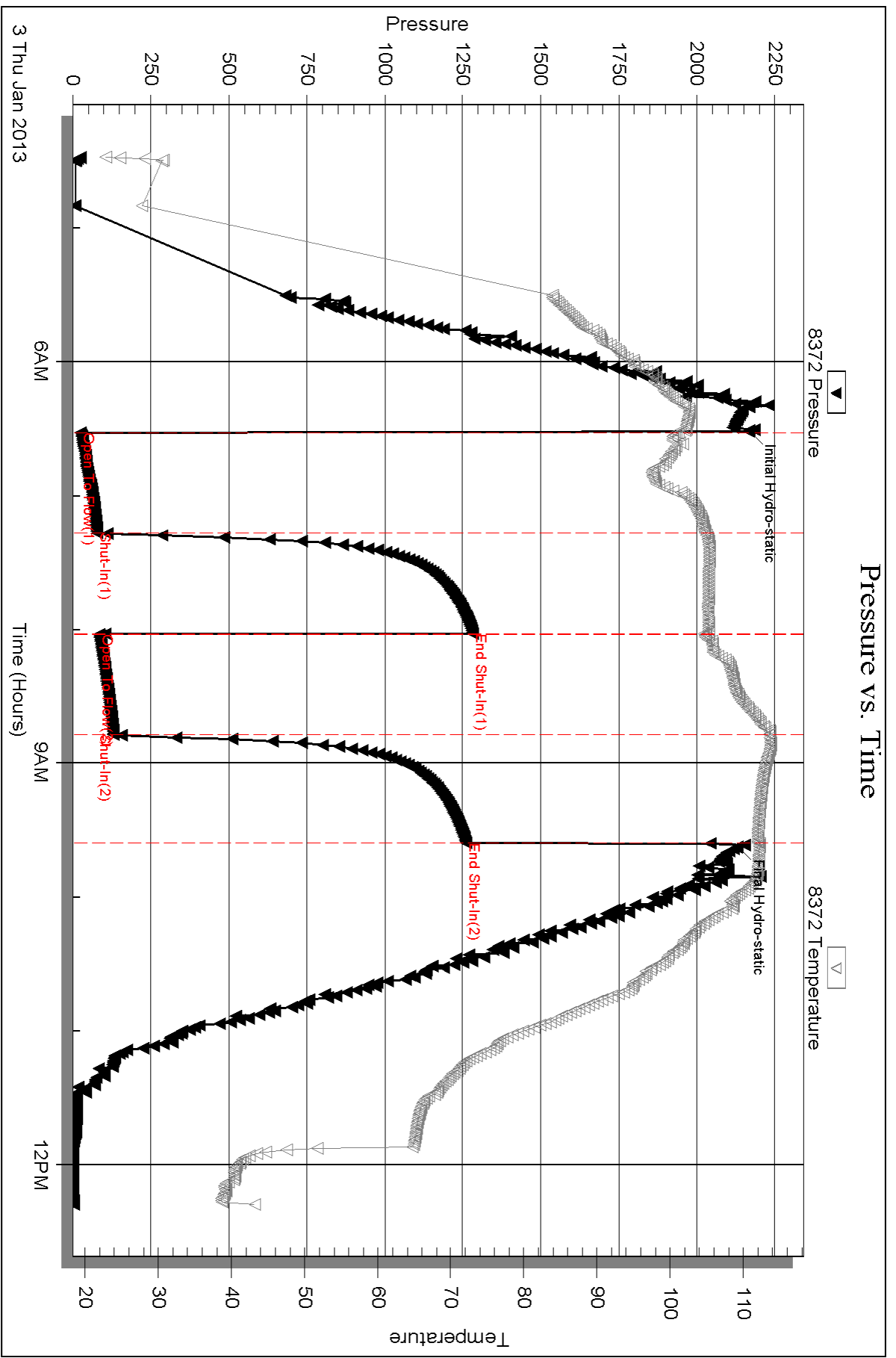
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	28000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.34 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	SOSMW o=tr m=20% w =80%	0.984
1.00	Oil	0.005

Total Length: 201.00 ft      Total Volume: 1.726 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



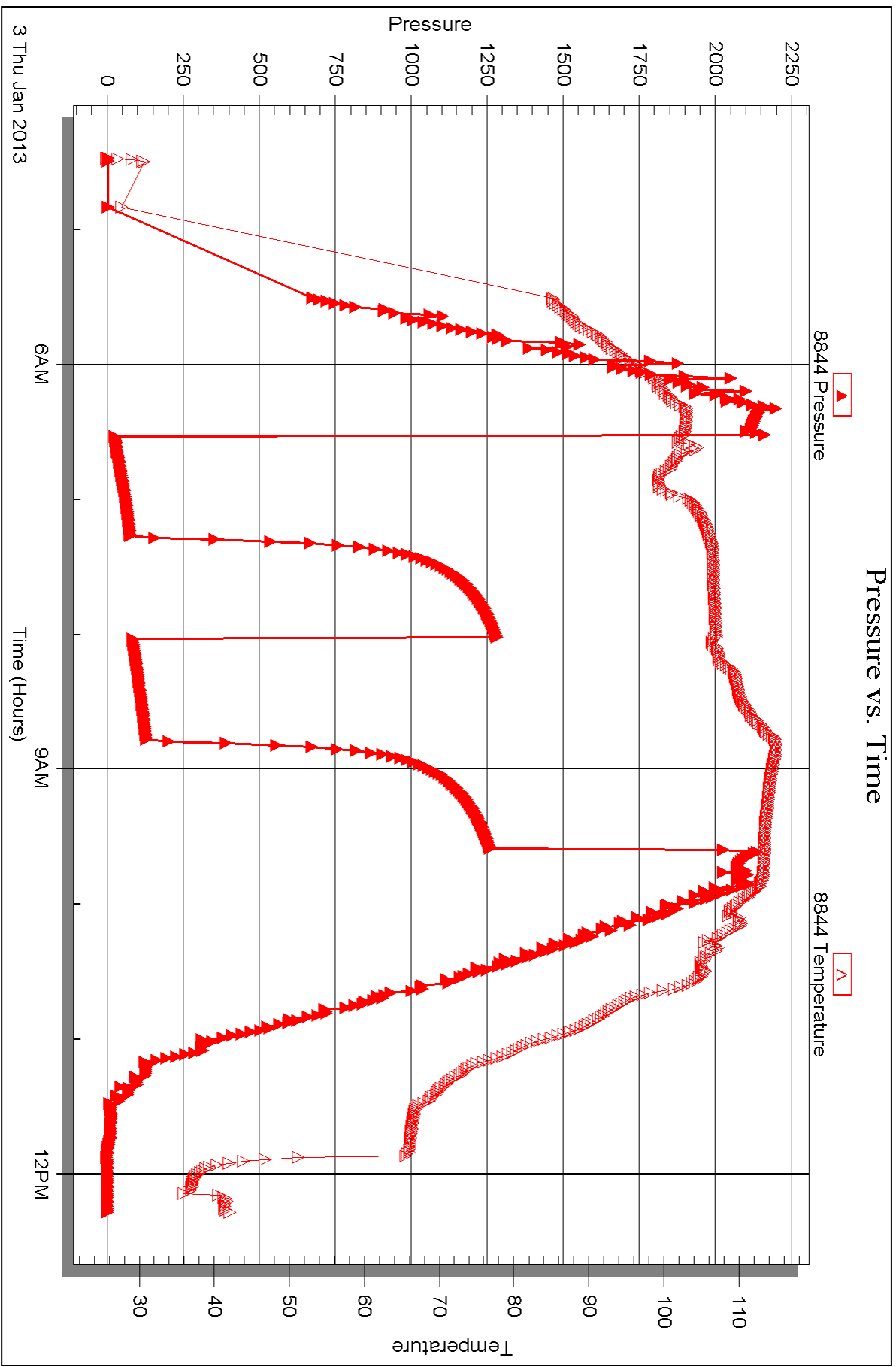
Serial #: 8844

Inside

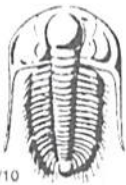
American Warrior inc.

Ruff #1-12 tw in

DST Test Number: 2







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51453

Well Name & No. RUFF #1-12 TWIN Test No. 1 Date 1-2-13  
 Company AMERICAN WARRIOR Elevation 2162 KB 2151 GL  
 Address PO BOX 399 GARDEN CITY KS 67846  
 Co. Rep / Geo. KEVIN TIMSON Rig DUKE #5  
 Location: Sec. 12 Twp. 22S Rge. 22W Co. HODGEMAN State KS

Interval Tested 4356-4395 Zone Tested OSAGE  
 Anchor Length 39 Drill Pipe Run 4213 Mud Wt. 9.6  
 Top Packer Depth 4351 Drill Collars Run 280.88 Vis 62  
 Bottom Packer Depth 4356 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4395 Chlorides 8800 ppm System LCM 1

Blow Description IF: Weak blow built to 1/2" increased to weak surface blow  
ISI: NO RETURN  
FF: NO BLOW  
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud w/oil spks in tool</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 10' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 2231
- (B) First Initial Flow 19
- (C) First Final Flow 32
- (D) Initial Shut-In 1174
- (E) Second Initial Flow 36
- (F) Second Final Flow 41
- (G) Final Shut-In 1120
- (H) Final Hydrostatic 2134

- Test ← 1250
- Jars ← 250
- Safety Joint ← 75
- Circ Sub
- Hourly Standby
- Mileage ← 146RT 226.30
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1801.30

T-On Location 10:06  
 T-Started 12:31  
 T-Open 14:45  
 T-Pulled 16:45  
 T-Out 19:05  
 Comments motel  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1801.30  
 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. 51454

Well Name & No. RUFF # 1-12 TWIN Test No. 2 Date 1-3-13  
 Company AMERICAN WARRIOR INC Elevation 2162 KB 2151 GL  
 Address PO BOX 399 GARDEN CITY KS 67846  
 Co. Rep / Geo. KEVIN TIMSON Rig Duke 5  
 Location: Sec. 12 Twp. 22S Rge. 22W Co. HODGEMAN State Ks

Interval Tested 4357-4398 Zone Tested OSAGE  
 Anchor Length 41' Drill Pipe Run 4240 Mud Wt. 9.6  
 Top Packer Depth 4352 Drill Collars Run 280.88 Vis 62  
 Bottom Packer Depth 4357 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4398 Chlorides 8800 ppm System LCM 1

Blow Description IF: 2" blow in 6min, 3" in 12min, 4" in 26min, 5" in 32min built to 6"  
ISF: NO RETURN  
FF: 2" blow in 16min, 3" in 21min, 4" in 41min, built to 5"  
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>0:1</u>				
<u>200</u>	<u>505mW</u>		<u>12%</u>	<u>80%</u>	<u>20%</u>

Rec Total 201' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW .52 @ 33 °F Chlorides 28000 ppm

(A) Initial Hydrostatic <u>2168</u>	<input checked="" type="checkbox"/> Test ← 1250	T-On Location <u>04:16</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars ← 250	T-Started <u>04:28</u>
(C) First Final Flow <u>78</u>	<input checked="" type="checkbox"/> Safety Joint ← 75	T-Open <u>06:32</u>
(D) Initial Shut-In <u>1283</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>09:32</u>
(E) Second Initial Flow <u>85</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:18</u>
(F) Second Final Flow <u>129</u>	<input checked="" type="checkbox"/> Mileage <u>146RT</u> 226.30	Comments _____
(G) Final Shut-In <u>1261</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2130</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 1801.30

MP/DST Disc't \_\_\_\_\_

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.