



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1166818  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW       Conv. to Producer
- 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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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



1166818

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'Brate - Gray 1-4
Doc ID	1166818

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'Brate - Gray 1-4
Doc ID	1166818

Tops

Name	Top	Datum
ANHY	1903'	+913
B/ANHY	1966'	+850
Heebner	4107'	-1291
Toronto	4120'	-1304
Lansing	-4193'	-1377
B/KC	4615'	-1799
Ft.Scott	4739'	-1923
Morrow	4880'	-2064
St.Louis	4897'	-2081

# **Geological Report**

American Warrior, Inc.

**O'Brate-Gray #1-4**

1757' FNL & 906' FWL

Sec. 5, T25s, R29w

Gray County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
O'Brate-Gray #1-4  
1757' FNL & 906' FWL  
Sec. 5, T25s, R29w  
Gray County, Kansas  
API # 15-069-20447-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: October 12, 2013

Completion Date: October 23, 2013

Elevation 2824' G.L.  
2835' K.B.

Directions: From Kalvesta, KS. Go 14.5 miles West on Hwy 96 to Haflich Rd. Go 10 miles South to G Rd, go 1 ½ miles East on G Rd and South into location.

Casing: 438' 8 5/8" #24 Surface Casing

Samples: 4050' to RTD 10' Wet & Dry

Drilling Time: 4050' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"  
Full Sweep

Drillstem Tests: Three, Trilobite Testing, Inc. "Sam Esparza"

Problems: None

## Formation Tops

O'Brate-Gray #1-4

Sec. 5, T25s, R29w

1757' FNL & 906' FWL

Anhydrite	1903' +913
Base	1966' +850
Heebner	4107' -1291
Toronto	4120' -1304
Lansing	4193' -1377
Stark	4482' -1666
Bkc	4615' -1799
Marmaton	4637' -1821
Pawnee	4713' -1897
Fort Scott	4739' -1923
Cherokee	4755' -1939
Morrow	4880' -2064
St. Louis	4897' -2081
RTD	5000' -2184
LTD	5000' -2184

### Sample Zone Descriptions

**Pawnee** (4713', -1897): Covered in DST #1

Ls – Sub-crystalline with fair vuggy and fair oomoldic/oolycastic porosity. Slight to fair stain. Poor saturation. No show of free oil. Slight odor. 20 Units Hotwire.

**Morrow Sand** (4880', -2064): Covered in DST #2

Ss – Fine to medium grain. Fair to well sorted sub-angular to well rounded grains. Good stain. Good saturation. Show of free oil. Strong odor. 30 Units Hotwire.

**Drill Stem Tests**  
Trilobite Testing Inc.  
“Sam Esparza”

**DST #1**

**Pawnee to Fort Scott**

Interval (4684' – 4750') Anchor Length 66'

IHP	- 2354 #	
IFP	- 45" – WSB built to 2"	25-54 #
ISI	- 45" – No Return	1222 #
FFP	- 45" – WSB built to ¾"	58-80 #
FSIP	- 45" – No Return	1185 #
FHP	- 2337 #	
BHT	- 113 ° F	
Recovery:	130' Mud with scum of oil	

**DST #2**

**Morrow Sandstone**

Interval (4836' – 4897') Anchor Length 61'

IHP	- 2390 #	
IFP	- 30" – ¼" died to WSB	19-23 #
ISI	- 30" – No Return	51 #
FFP	- 30" – No blow	24-25 #
FSIP	- 30" – No Return	38 #
FHP	- 2351 #	
BHT	- 115 ° F	
Recovery:	5' Mud with oil spots	

**DST #3**

**Morrow to St. Louis**

Interval (4837' – 4933') Anchor Length 96'

IHP	- 2423 #	
IFP	- 30" – ¼" blow	20-26 #
ISI	- 30" – No Return	272 #
FFP	- 30" – No blow	28-31 #
FSIP	- 30" – No Return	100 #
FHP	- 2386 #	
BHT	- 114 ° F	
Recovery:	5' Mud with oil spots	



## Structural Comparison

Formation	American Warrior, Inc. O'Brate-Gray #1-4 Sec. 4, T25s, R29w 1757' FNL & 906' FWL		Frontier Oil Co. Moeschl #1 Sec. 9, T25s, R29w SW NW NW		American Warrior, Inc. City of Ingalls #1-5 Sec 5, T24s, R29w 1500' FSL & 1150' FWL
	Heebner		4107' -1291		<b>FL</b>
Toronto	4120' -1304	+3	4120' -1307	<b>-1</b>	4127' -1303
Lansing	4193' -1377	+4	4194' -1381	<b>FL</b>	4201' -1377
Stark	4482' -1666	NA	NA	<b>-2</b>	4488' -1664
BKC	4615' -1799	-4	4608' -1795	<b>-7</b>	4616' -1792
Marmaton	4637' -1821	NA	NA	<b>-13</b>	4632' -1808
Pawnee	4713' -1897	-1	4709' -1896	<b>-5</b>	4716' -1892
Fort Scott	4739' -1923	NA	NA	<b>-7</b>	4740' -1916
Cherokee	4755' -1939	-3	4749' -1936	<b>-9</b>	4754' -1930
Morrow	4880' -2064	-9	4868' -2055	<b>-10</b>	4878' -2054
St. Louis	4897' -2081	-3	4891' -2078	<b>-2</b>	4903' -2079

### Summary

The location for the O'Brate-Gray #1-4 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, which were all negative. After all the gathered data had been examined, the decision was made to plug and abandon the O'Brate-Gray #1-4 well.

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.



Date 12-12-13 District Green Bay Ticket No. 01535  
 Company American Well Rig Duke 5  
 Lease OBare-Lake Well No. 1-4  
 County Gray State KS  
 Location High 156 & Hurlick Rd Field \_\_\_\_\_  
105 2E 41270

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 5/8 Type new Weight 24# Collar GR1

Casing Depths: Top KB Bottom 4135.50

Drill Pipe: Size 4 1/2 Weight 16.6 Collars 275  
 Open Hole: Size 17 1/4 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 10637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. 10142 Lin. ft./Bbl. 170.32  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Reshwar  
 Amt. 56615 Sks Yield 15 ft<sup>3</sup>/sk Density 9.34 PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type 1999A12  
 Excess \_\_\_\_\_

Amt. 275 Sks Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 366 - Ben V  
 Bulk Equip. 344-170 - Ken's

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type Reshwar Amt. \_\_\_\_\_ Bbls. Weight 9.2 PPG  
 Mud Type Mud 1.20 Weight 9.2 PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Dustin

TIME		PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM		DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
							DN location - Rig 110 Had safety meeting
							Run 5 5/8 casing Break circulation with Rig mud Hookup cement pump
					56615		pump 56615 Reshwar ahead
				70.62	65.62		Mix 275 Sks cement
				97.62	27.00		Displace 27 bbls Reshwar & shut in
							Cement did circulate
							plug Down 12:00 AM
							Rig Down

Date 10-27-17 District Cement Products Ticket No. 61939  
 Company American wellbore Rig Duke #5  
 Lease Obryne - Gray Well No. 1-4  
 County Osage State KS  
 Location  Hwy 196 & Hallick Rd Field \_\_\_\_\_  
104 2E 9250

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 6 5/8 Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size 4 1/2 Weight 16.6 Collars X Late  
 Open Hole: Size 7 1/8 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 0.2637 Lin. ft./Bbl. 15.72  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. 0.2142 Lin. ft./Bbl. 70.32  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Fracturing  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 60.30 PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type 60% class A  
404.202 4.4 gal 4.45 Excess \_\_\_\_\_

Amt. 250 Skys Yield 1.42 ft<sup>3</sup>/sk Density 14.5 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 3946 - Mike S  
 Bulk Equip. 3442-70 - Kevin W

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type Fracturing Amt. \_\_\_\_\_ Bbls. Weight 2.74 PPG  
 Mud Type Native Weight 9.2 PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Dustin

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
6:30 AM						ON location - Rig up Had 99 Grey Meeting
8:00 AM						Ran 4 1/2 Drill pipe Cill hole with Big pump Hooking cement pump
9:00 AM						1. 1950-50SKS
9:20 AM						2. 1100-50SKS
10:00 AM						3. 470-50SKS
10:30 AM						4. 60-20SKS
11:00 AM						5. 241-309KS
11:00 AM						6. MH-209KS
						plug Down - 11:00 AM



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67842

ATTN: Kevin Timson

**O'Brate-Gray #1-4**

**4-25s-29w-Gray,KS**

Start Date: 2013.10.19 @ 03:31:15

End Date: 2013.10.19 @ 12:12:00

Job Ticket #: 54522                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.24 @ 14:25:17







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54522      **DST#: 1**  
Test Start: 2013.10.19 @ 03:31:15

**Tool Information**

Drill Pipe:	Length: 4392.00 ft	Diameter: 3.80 inches	Volume: 61.61 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: 278.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Pull Loose: 0.00 lb
			<u>Total Volume: 62.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 0.00 lb
Depth to Top Packer:	4684.00 ft			Final 0.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			4657.00	
Shut In Tool	5.00			4662.00	
Hydraulic tool	5.00			4667.00	
Jars	5.00			4672.00	
Safety Joint	2.00			4674.00	
Packer	5.00			4679.00	28.00      Bottom Of Top Packer
Packer	5.00			4684.00	
Stubb	1.00			4685.00	
Perforations	2.00			4687.00	
Recorder	0.00	8846	Inside	4687.00	
Recorder	0.00	8737	Outside	4687.00	
Perforations	25.00			4712.00	
Change Over Sub	1.00			4713.00	
Drill Pipe	31.00			4744.00	
Change Over Sub	1.00			4745.00	
Bullnose	5.00			4750.00	66.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>94.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54522      **DST#: 1**  
Test Start: 2013.10.19 @ 03:31:15

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	N/A	0.000

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

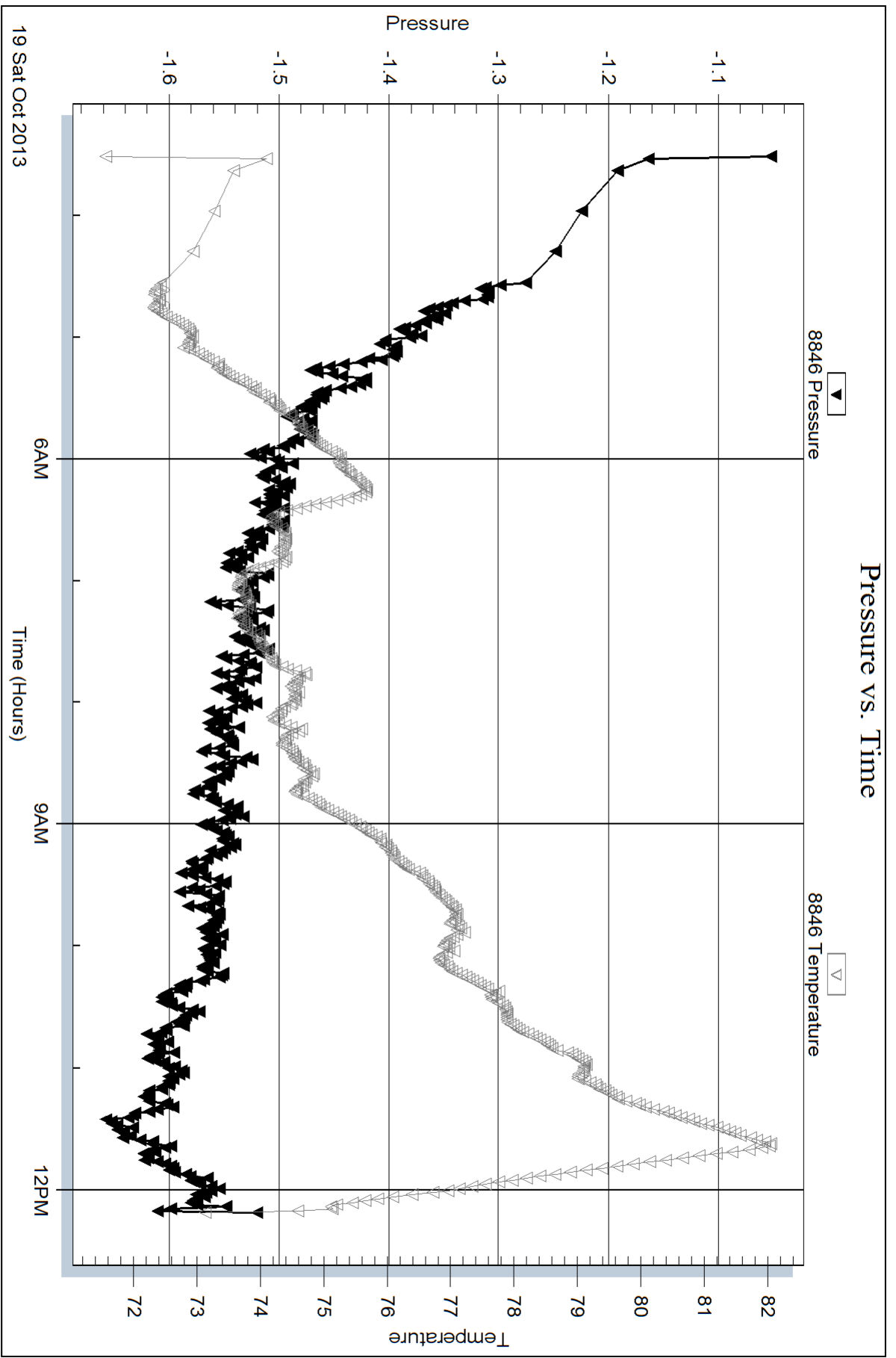
Serial #: 8846

Inside

American Warrior Inc.

OBrate-Gray #1-4

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54522

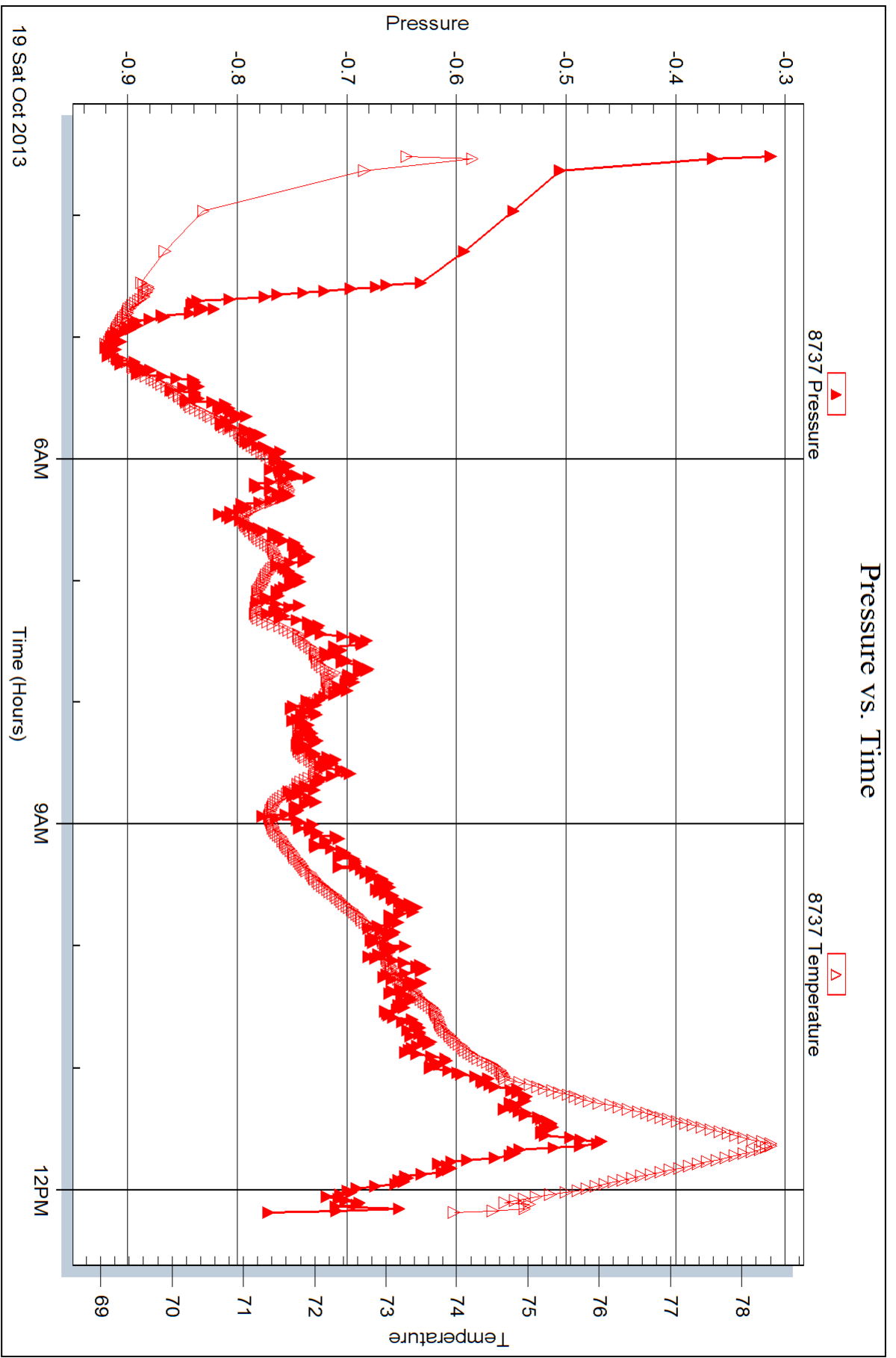
Printed: 2013.10.24 @ 14:25:18

Serial #: 8737

Outside American Warrior Inc.

OBrate-Gray #1-4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54522

Printed: 2013.10.24 @ 14:25:19



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67842

ATTN: Kevin Timson

**O'Brate-Gray #1-4**

**4-25s-29w-Gray,KS**

Start Date: 2013.10.19 @ 21:36:00

End Date: 2013.10.20 @ 05:39:30

Job Ticket #: 54740                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.24 @ 14:24:52



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

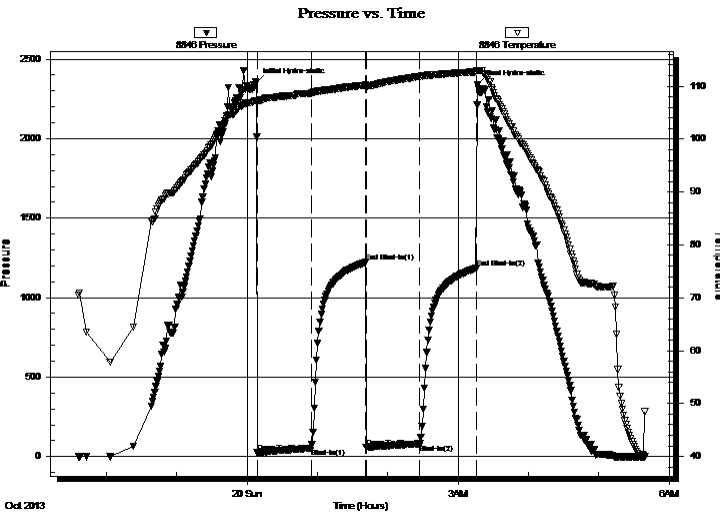
**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54740      **DST#: 2**  
Test Start: 2013.10.19 @ 21:36:00

## GENERAL INFORMATION:

Formation: **Pawnee- Ft. Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:08:30  
Time Test Ended: 05:39:30  
Interval: **4684.00 ft (KB) To 4750.00 ft (KB) (TVD)**  
Total Depth: 4750.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 65  
Reference Elevations: 2816.00 ft (KB)  
2805.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8846      Inside**  
Press @ Run Depth: 80.34 psig @ 4685.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.19      End Date: 2013.10.20      Last Calib.: 2013.10.20  
Start Time: 21:36:15      End Time: 05:39:30      Time On Btm: 2013.10.20 @ 00:08:00  
Time Off Btm: 2013.10.20 @ 03:16:45

TEST COMMENT: IF: 2" Blow .  
IS: No Return.  
FF: 3/4" Blow .  
FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2353.60	107.25	Initial Hydro-static
1	24.63	106.86	Open To Flow (1)
47	53.93	108.61	Shut-In(1)
94	1222.10	110.21	End Shut-In(1)
94	57.86	109.66	Open To Flow (2)
140	80.34	111.85	Shut-In(2)
188	1185.17	112.71	End Shut-In(2)
189	2337.29	112.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud ( Oil Scum on top ) Light gassy odor	0.64

\* 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 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54740      **DST#: 2**  
Test Start: 2013.10.19 @ 21:36:00

**Tool Information**

Drill Pipe:	Length: 4392.00 ft	Diameter: 3.80 inches	Volume: 61.61 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: 278.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4684.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	95.00 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			4656.00	
Shut In Tool	5.00			4661.00	
Hydraulic tool	5.00			4666.00	
Jars	5.00			4671.00	
Safety Joint	3.00			4674.00	
Packer	5.00			4679.00	29.00      Bottom Of Top Packer
Packer	5.00			4684.00	
Stubb	1.00			4685.00	
Recorder	0.00	8846	Inside	4685.00	
Recorder	0.00	8737	Outside	4685.00	
Perforations	27.00			4712.00	
Change Over Sub	1.00			4713.00	
Drill Pipe	31.00			4744.00	
Change Over Sub	1.00			4745.00	
Bullnose	5.00			4750.00	66.00      Bottom Packers & Anchor

**Total Tool Length: 95.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray,KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54740      **DST#: 2**  
Test Start: 2013.10.19 @ 21:36:00

### 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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 1.00 inches			

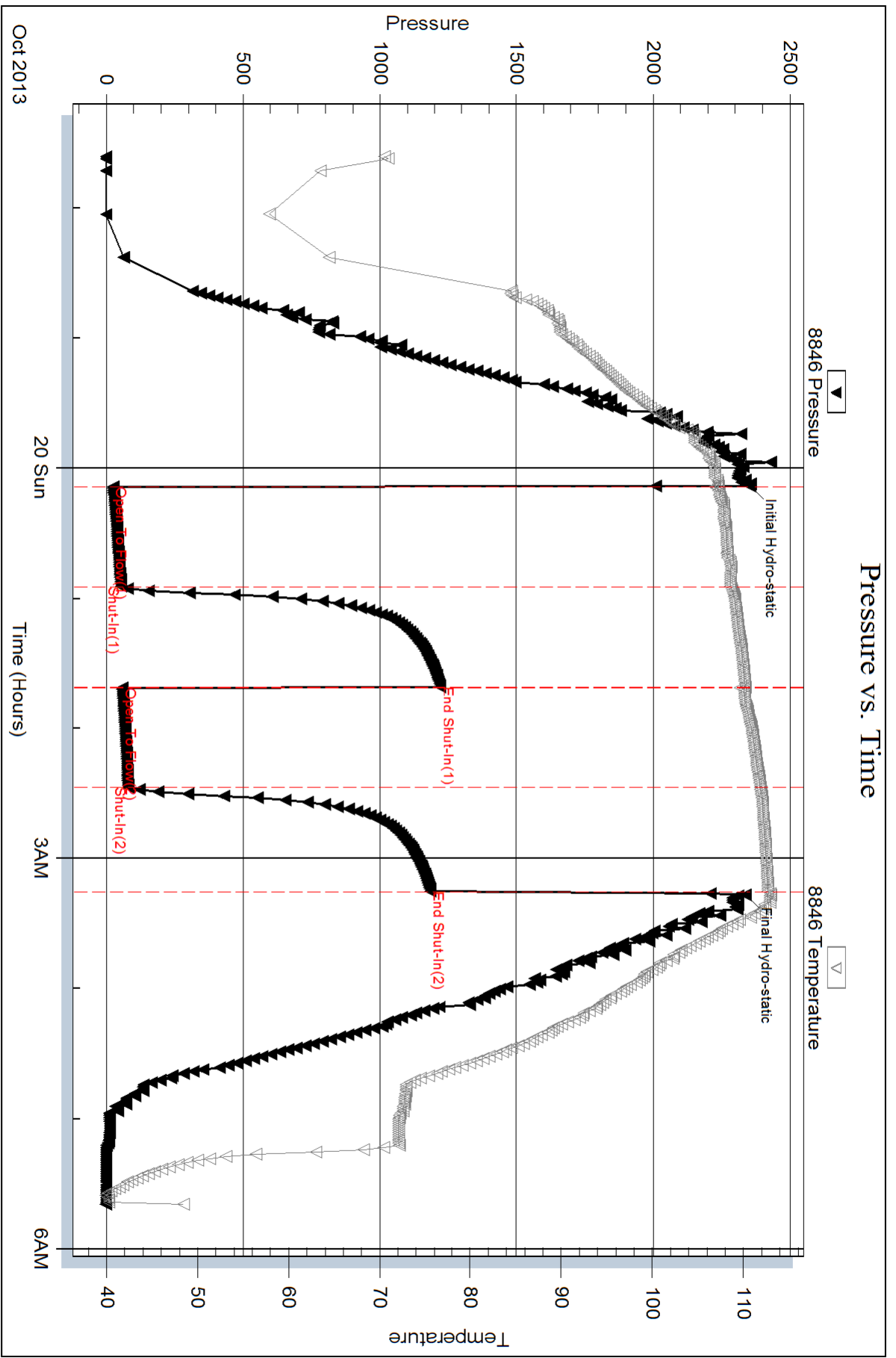
### Recovery Information

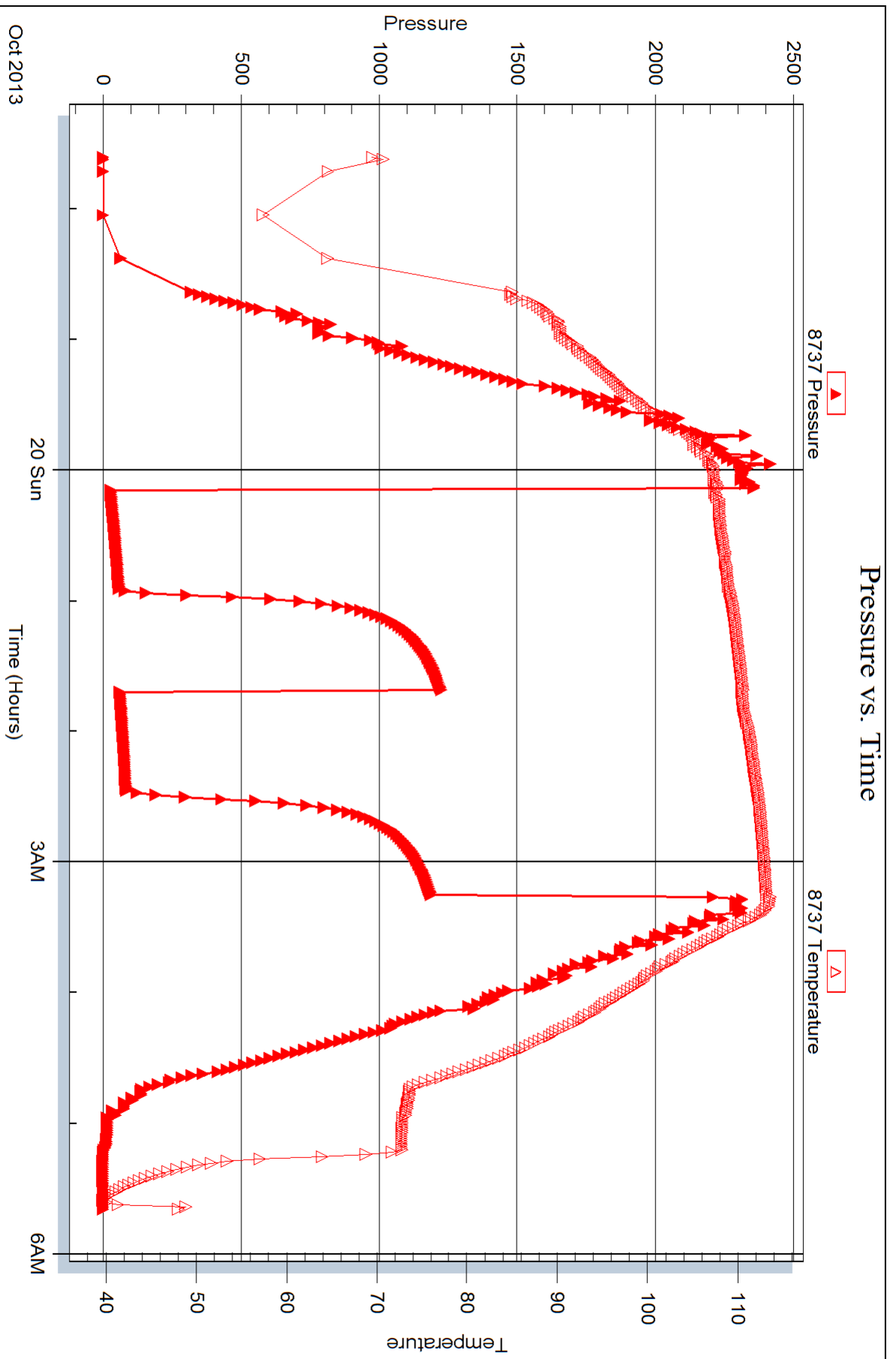
Recovery Table

Length ft	Description	Volume bbl
130.00	Mud ( Oil Scum on top ) Light gassy odor	0.639

Total Length: 130.00 ft      Total Volume: 0.639 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67842

ATTN: Kevin Timson

**O'Brate-Gray #1-4**

**4-25s-29w-Gray,KS**

Start Date: 2013.10.21 @ 02:33:00

End Date: 2013.10.21 @ 09:48:00

Job Ticket #: 54741                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.24 @ 14:24:27



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

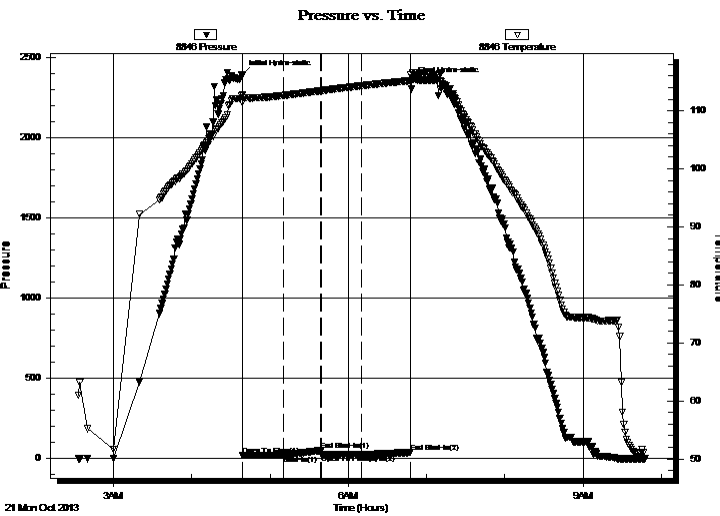
**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54741      **DST#: 3**  
Test Start: 2013.10.21 @ 02:33:00

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:39:00  
Time Test Ended: 09:48:00  
Interval: **4836.00 ft (KB) To 4897.00 ft (KB) (TVD)**  
Total Depth: 4897.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 65  
Reference Elevations: 2816.00 ft (KB)  
2805.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8846      Inside**  
Press @ Run Depth: 25.39 psig @ 4837.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.21      End Date: 2013.10.21      Last Calib.: 2013.10.21  
Start Time: 02:33:15      End Time: 09:48:00      Time On Btm: 2013.10.21 @ 04:38:45  
Time Off Btm: 2013.10.21 @ 06:48:00

**TEST COMMENT:** IF: 1/4" Blow Died back to a Weak Surface Blow .  
IS: No Return.  
FF: No Blow .  
FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.68	112.69	Initial Hydro-static
1	18.53	111.40	Open To Flow (1)
32	23.10	112.64	Shut-In(1)
61	50.59	113.45	End Shut-In(1)
61	24.23	113.44	Open To Flow (2)
92	25.39	114.31	Shut-In(2)
129	37.61	115.21	End Shut-In(2)
130	2350.64	116.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m ( Oil Spots )	0.02

\* 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 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54741      **DST#: 3**  
Test Start: 2013.10.21 @ 02:33:00

**Tool Information**

Drill Pipe:	Length: 4549.00 ft	Diameter: 3.80 inches	Volume: 63.81 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: 278.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 65.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4836.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	90.00 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			4808.00	
Shut In Tool	5.00			4813.00	
Hydraulic tool	5.00			4818.00	
Jars	5.00			4823.00	
Safety Joint	3.00			4826.00	
Packer	5.00			4831.00	29.00      Bottom Of Top Packer
Packer	5.00			4836.00	
Stubb	1.00			4837.00	
Recorder	0.00	8846	Inside	4837.00	
Recorder	0.00	8737	Outside	4837.00	
Perforations	22.00			4859.00	
Change Over Sub	1.00			4860.00	
Drill Pipe	31.00			4891.00	
Change Over Sub	1.00			4892.00	
Bullnose	5.00			4897.00	61.00      Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray,KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54741      **DST#: 3**  
Test Start: 2013.10.21 @ 02:33:00

## 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: 1.00 inches			

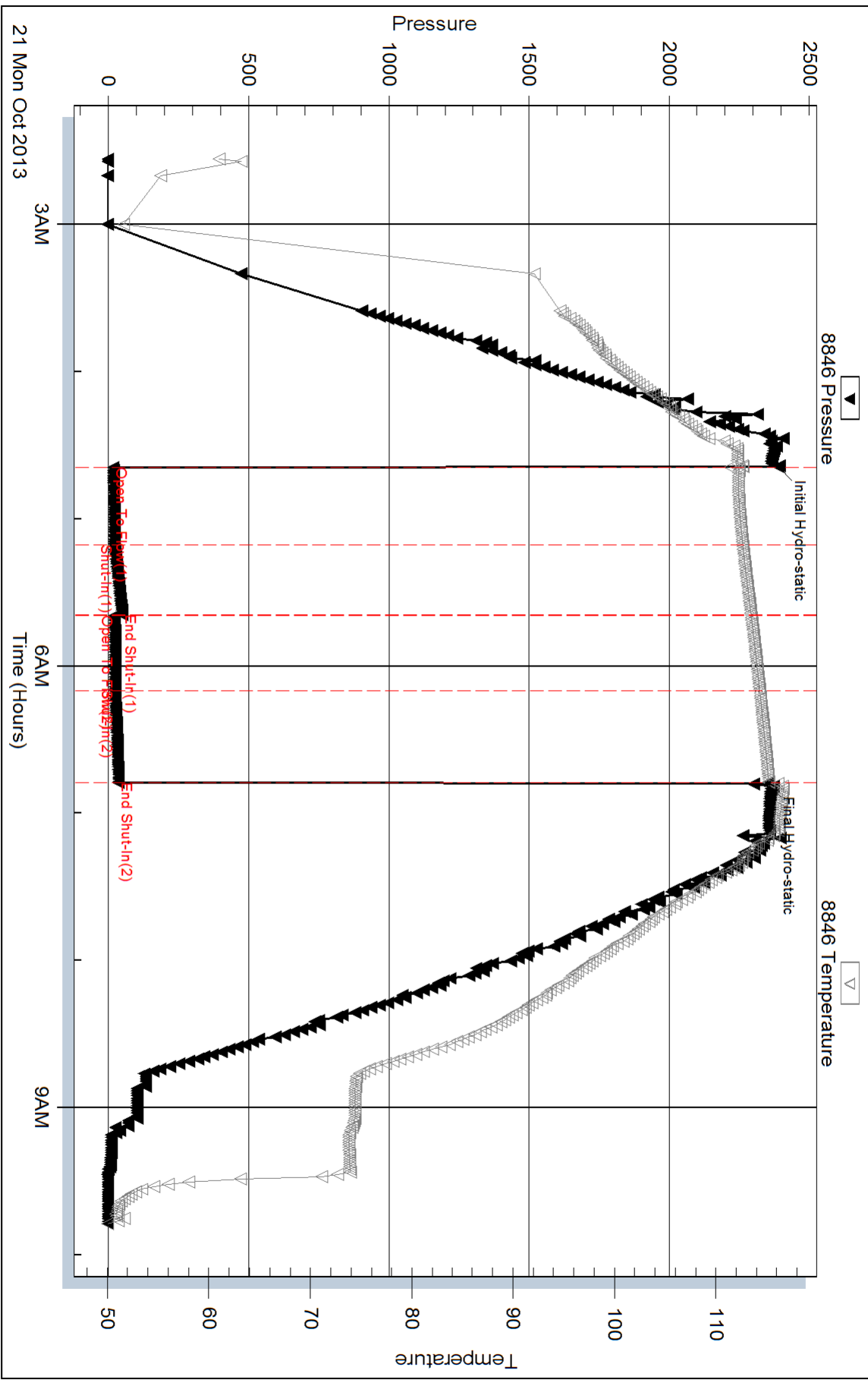
## Recovery Information

Recovery Table

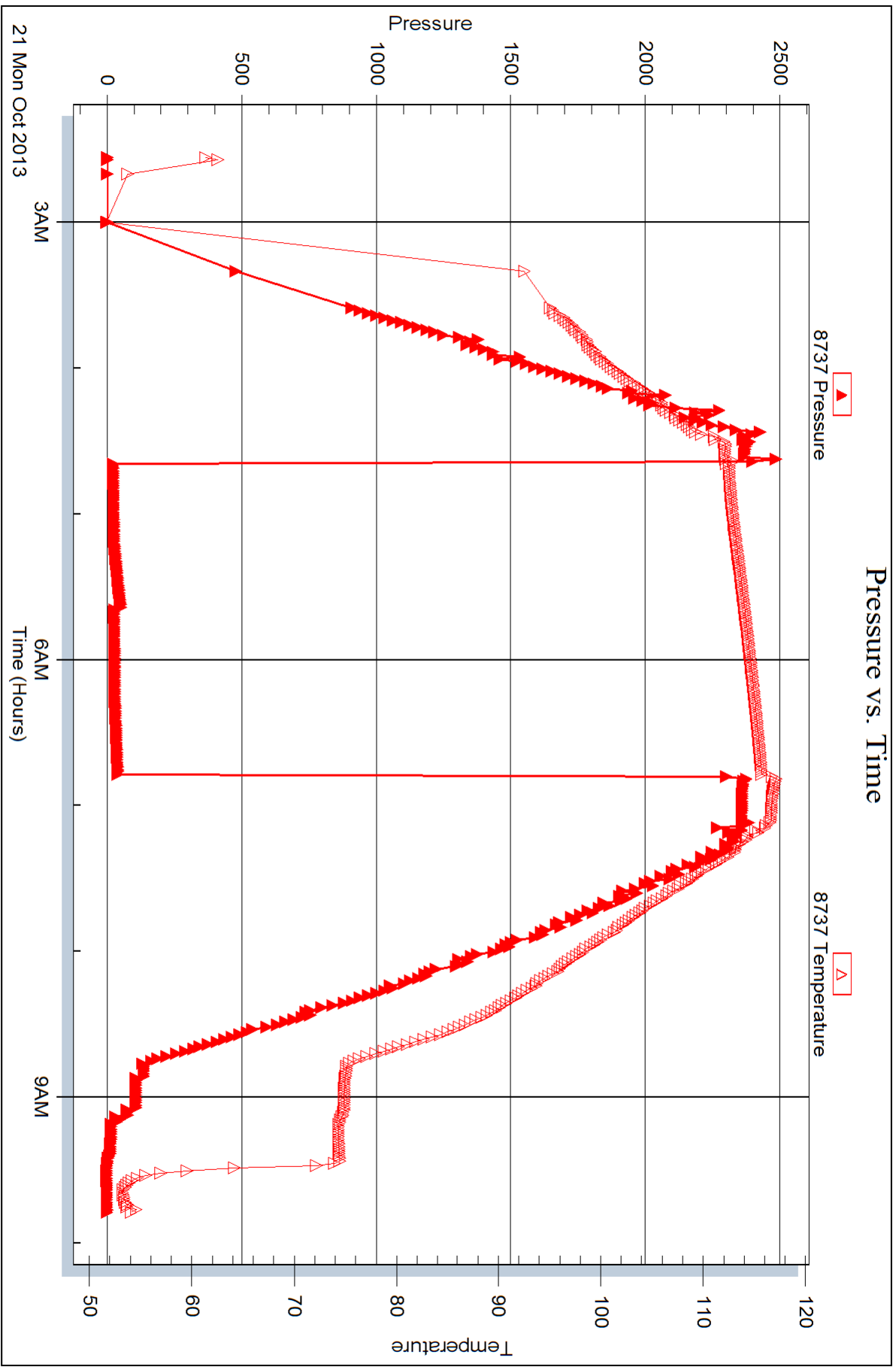
Length ft	Description	Volume bbl
5.00	Mud 100m ( Oil Spots )	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67842

ATTN: Kevin Timson

**O'Brate-Gray #1-4**

**4-25s-29w-Gray,KS**

Start Date: 2013.10.21 @ 22:14:00

End Date: 2013.10.22 @ 04:56:00

Job Ticket #: 54742                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.24 @ 14:23:53



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54742      **DST#: 4**  
Test Start: 2013.10.21 @ 22:14:00

## GENERAL INFORMATION:

Formation: **Morrow - St. Louis**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 00:24:15  
Time Test Ended: 04:56:00  
Interval: **4837.00 ft (KB) To 4933.00 ft (KB) (TVD)**  
Total Depth: 4933.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 65  
Reference Elevations: 2816.00 ft (KB)  
2805.00 ft (CF)  
KB to GR/CF: 11.00 ft

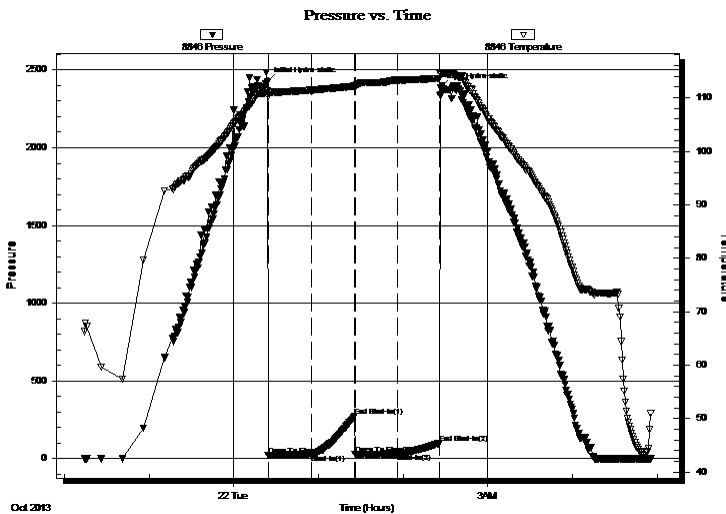
## Serial #: 8846

Inside

Press @ Run Depth: 30.73 psig @ 4838.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.21      End Date: 2013.10.22      Last Calib.: 2013.10.22  
Start Time: 22:14:15      End Time: 04:56:00      Time On Btm: 2013.10.22 @ 00:24:00  
Time Off Btm: 2013.10.22 @ 02:26:45

TEST COMMENT: IF: 1/4" Blow .  
IS: No Return.  
FF: No Blow .  
FS: No Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2422.57	111.25	Initial Hydro-static
1	20.37	110.20	Open To Flow (1)
31	26.36	111.41	Shut-In(1)
62	272.37	112.16	End Shut-In(1)
62	27.69	112.10	Open To Flow (2)
92	30.73	113.30	Shut-In(2)
122	99.66	113.66	End Shut-In(2)
123	2386.40	114.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m ( Oil Spots )	0.02

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray, KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54742      **DST#: 4**  
Test Start: 2013.10.21 @ 22:14:00

**Tool Information**

Drill Pipe:	Length: 4550.00 ft	Diameter: 3.80 inches	Volume: 63.82 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: 278.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 65.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4837.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	96.00 ft				
Tool Length:	125.00 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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<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
Change Over Sub	1.00			4809.00	
Shut In Tool	5.00			4814.00	
Hydraulic tool	5.00			4819.00	
Jars	5.00			4824.00	
Safety Joint	3.00			4827.00	
Packer	5.00			4832.00	29.00      Bottom Of Top Packer
Packer	5.00			4837.00	
Stubb	1.00			4838.00	
Recorder	0.00	8846	Inside	4838.00	
Recorder	0.00	8737	Outside	4838.00	
Perforations	25.00			4863.00	
Change Over Sub	1.00			4864.00	
Drill Pipe	63.00			4927.00	
Change Over Sub	1.00			4928.00	
Bullnose	5.00			4933.00	96.00      Bottom Packers & Anchor

**Total Tool Length: 125.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.  
PO Box 399  
Garden City, KS 67842  
ATTN: Kevin Timson

**4-25s-29w-Gray,KS**  
**O'Brate-Gray #1-4**  
Job Ticket: 54742      **DST#: 4**  
Test Start: 2013.10.21 @ 22:14:00

## Mud and Cushion Information

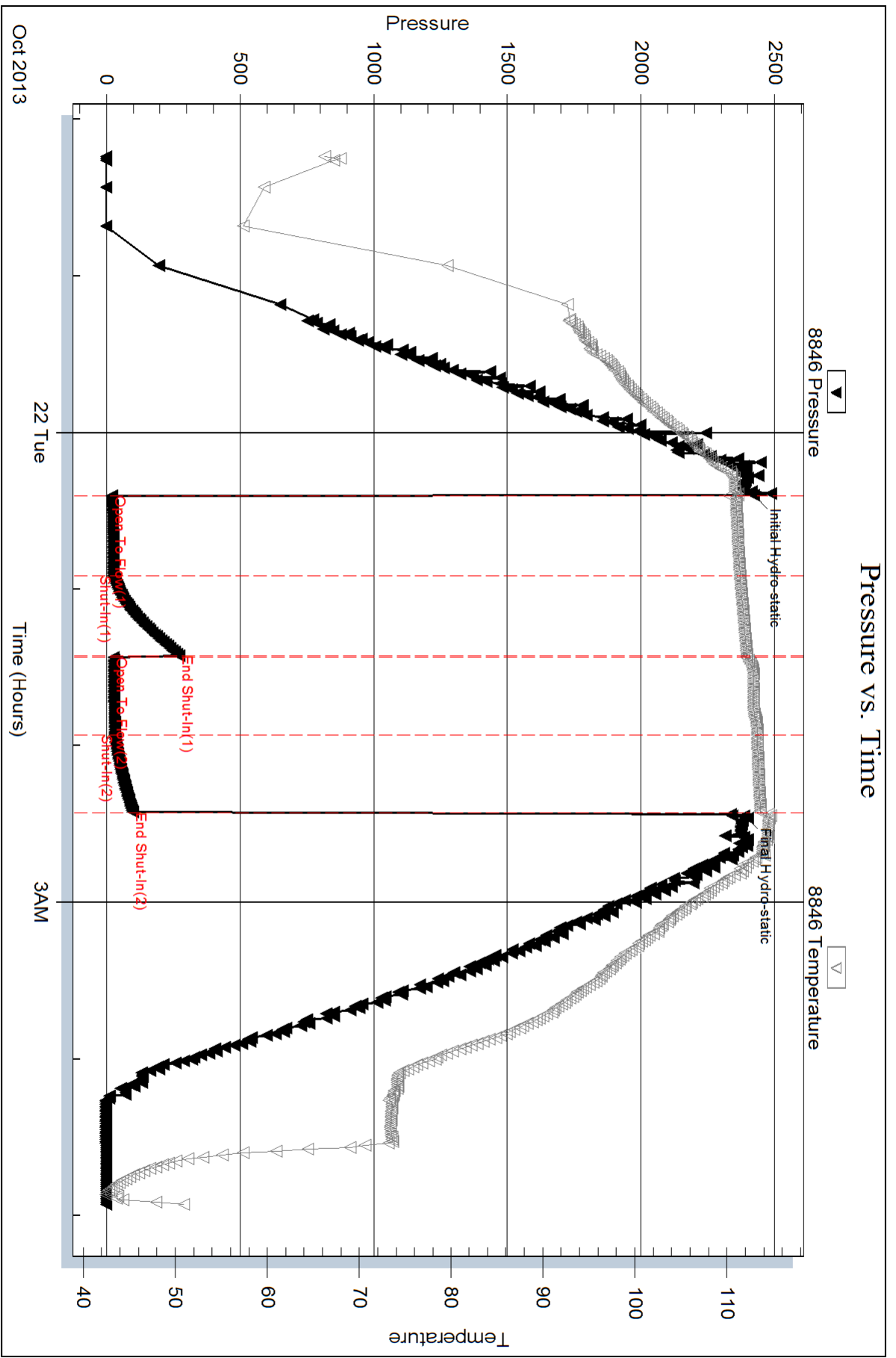
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: 1.00 inches			

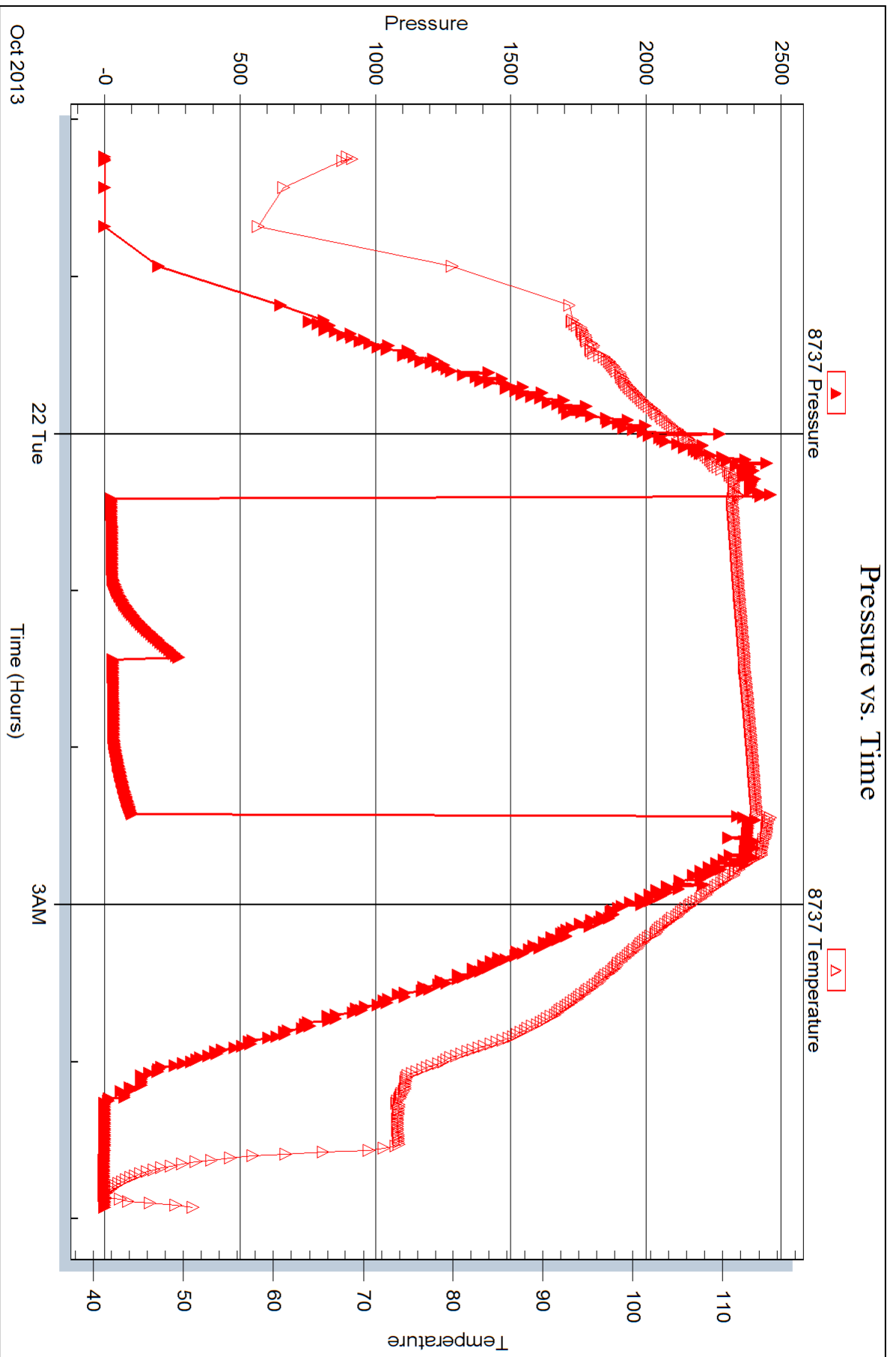
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m ( Oil Spots )	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54739

Well Name & No. O'Brate - Gray #1-4 Test No. 1 Date 10/18/13  
 Company American Warrior Inc. Elevation 2816 KB 2805 GL  
 Address 3118 Cummings Road Garden city, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #5  
 Location: Sec. 4 Twp. 25 S Rge. 29 W Co. Gray State KS

Interval Tested 4684-4750 Zone Tested Pawnee - Ft. Scott  
 Anchor Length 66 Drill Pipe Run 4392 Mud Wt. 9.4  
 Top Packer Depth 4680 Drill Collars Run 278 Vis 53  
 Bottom Packer Depth 4684 Wt. Pipe Run Ø WL 11.6  
 Total Depth 4750 Chlorides 2000 ppm System LCM 1

Blow Description IF: Deviation tool lost/stuck in pipe  
 ISL: Standby! Could NOT locate so they sent  
 FF: me home until then.  
 FSI:

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>N/A</u>	Feet of <u>N/A</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity ↑ API RW ↑ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test \_\_\_\_\_ T-On Location 23:20  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 3:31  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open N/A  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub N/C \_\_\_\_\_ T-Pulled N/A  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby X10 1/2 \_\_\_\_\_ T-Out 12:11  
 (F) Second Final Flow \_\_\_\_\_  Mileage 126 R/T 195.30 \_\_\_\_\_ Comments Projected time  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ Out 1:30 am  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_ just charge 1 day standby  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_

Initial Open \_\_\_\_\_  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Final Flow \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 995.30  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 195.30

Approved By \_\_\_\_\_ Our Representative SE Sam Esparza / Cornell

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. 54740

Well Name & No. O'Brate-Gray #1-4 Test No. 2 Date 10/19/13  
 Company American Warrior Inc. Elevation 2816 KB 2805 GL  
 Address 3118 Cummings Road Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #5  
 Location: Sec. 4 Twp. 26S Rge. 29W Co. Gray State K5

Interval Tested 4684-4750 Zone Tested Pawnee - Ft. Scott  
 Anchor Length 66' Drill Pipe Run 4392 Mud Wt. 9.2  
 Top Packer Depth 4680 Drill Collars Run 278 Vis 54  
 Bottom Packer Depth 4684 Wt. Pipe Run Ø WL 8.8  
 Total Depth 4750 Chlorides 4800 ppm System LCM 1  
 Blow Description IF: 2" Blow.  
ISI: NO Return.  
FF: 3/4" Blow.  
FSE: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>Mud (oil 5mm on top)</u>			<u>100</u>	
	<u>light gassy odor</u>				

Rec Total 130 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2354  Test 1250 T-On Location 21:30  
 (B) First Initial Flow 25  Jars 250 T-Started 21:36  
 (C) First Final Flow 54  Safety Joint 75 T-Open 00:08  
 (D) Initial Shut-In 1222  Circ Sub N/C T-Pulled 3:15  
 (E) Second Initial Flow 58  Hourly Standby — T-Out 5:40  
 (F) Second Final Flow 80  Mileage 126 R/T 195.30 Comments —  
 (G) Final Shut-In 1185  Sampler —  
 (H) Final Hydrostatic 2337  Straddle —  Ruined Shale Packer —

Initial Open 45  Shale Packer —  Ruined Packer —  
 Initial Shut-In 45  Extra Packer —  Extra Copies —  
 Final Flow 45  Extra Recorder — Sub Total 0  
 Final Shut-In 45  Day Standby — Total 1770.30  
 Accessibility — MP/DST Disc —  
 Sub Total 1770.30

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54741

Well Name & No. O'Boate - Gray #1-4 Test No. 3 Date 10/21/13  
 Company American Warrior, Inc. Elevation 2816 KB 2805 GL  
 Address 3118 Cummings Road Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #5  
 Location: Sec. 4 Twp. 25 S Rge. 29 W Co. Gray State KS

Interval Tested 4836 - 4897 Zone Tested Morrow  
 Anchor Length 61' Drill Pipe Run 4549 Mud Wt. 9.5  
 Top Packer Depth 4832 Drill Collars Run 278 Vis 49  
 Bottom Packer Depth 4836 Wt. Pipe Run Ø WL 8.8  
 Total Depth 4897 Chlorides 3600 ppm System LCM 1

Blow Description IF: 1/4" Blow died back to a weak surface Blow.  
ISI: No Return.

FF: NO Blow.  
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud (oil spots)</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 2390  Test 1250 T-On Location 2:20  
 (B) First Initial Flow 19  Jars 250 T-Started 2:33  
 (C) First Final Flow 23  Safety Joint 75 T-Open 4:40  
 (D) Initial Shut-In 51  Circ Sub N/C T-Pulled 6:49  
 (E) Second Initial Flow 24  Hourly Standby T-Out 9:48  
 (F) Second Final Flow 25  Mileage 126 R/T 195.30 Comments pulled late  
 (G) Final Shut-In 38  Sampler — had to wait on crew  
 (H) Final Hydrostatic 2351  Straddle — Shift Change

Initial Open 30  Shale Packer  Ruined Shale Packer  
 Initial Shut-In 30  Extra Packer  Ruined Packer  
 Final Flow 30  Extra Recorder  Extra Copies  
 Final Shut-In 30  Day Standby  Sub Total 0  
 Sub Total 1770.30  Accessibility  Total 1770.30  
 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54742

Well Name & No. O'Brate Gray #1-4 Test No. 4 Date 10/21/13  
 Company American Warrior, Inc. Elevation 2816 KB 2805 GL  
 Address 3118 Cummings Road Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #5  
 Location: Sec. 4 Twp. 25B Rge. 29W Co. Gray State KS

Interval Tested 4837-4933 Zone Tested Morrow / St Louis  
 Anchor Length 96' Drill Pipe Run 4550 Mud Wt. 9.3  
 Top Packer Depth 4833 Drill Collars Run 278 Vis 50  
 Bottom Packer Depth 4837 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4933 Chlorides 3600 ppm System LCM 1

Blow Description IF: 1/4" Blow.  
IST: No Return.  
FF: No Blow.  
FST: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud (oil spots)</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 114 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2423  Test 1250 T-On Location 21:45  
 (B) First Initial Flow 20  Jars 250 T-Started 22:14  
 (C) First Final Flow 26  Safety Joint 75 T-Open 00:24  
 (D) Initial Shut-In 272  Circ Sub N/C T-Pulled 2:26  
 (E) Second Initial Flow 28  Hourly Standby T-Out 4:56  
 (F) Second Final Flow 31  Mileage 126 R/H 195.30 Comments 100 feet Tools  
 (G) Final Shut-In 100  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2386  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1770.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1770.30

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

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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 04, 2013

Joe Smith  
American Warrior, Inc.  
3118 Cummings Rd  
PO BOX 399  
GARDEN CITY, KS 67846

Re: ACO1  
API 15-069-20447-00-00  
O'Brate - Gray 1-4  
NW/4 Sec.04-25S-29W  
Gray County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Joe Smith