



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1185933  
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: \_\_\_\_\_

1185933

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  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

<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> _____ <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	Melvin 1-16
Doc ID	1185933

Tops

Name	Top	Datum
Anhydrite	1432	749
Heebner	3648	-1467
Lansing	3692	-1511
Base Kansas City	4017	-1836
Pawnee	4084	-1903
Fort Scott	4162	-1981
Cherokee	4181	-2000
Mississippian	4264	-2083
TD	4286	-2105



# **Geological Report**

American Warrior, Inc.

**Melvin #1-16**

1910' FSL & 940' FWL

Sec. 16 T18s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Melvin #1-16  
1910' FSL & 940' FWL  
Sec. 16 T18s R21w  
Ness County, Kansas  
API # 15-135-25656-0000

Drilling Contractor: Petromark Drilling, LLC. Rig #1

Geologist: Jason T Alm

Spud Date: September 17, 2013

Completion Date: September 26, 2013

Elevation: 2175' Ground Level  
2181' Kelly Bushing

Directions: Bazine KS, 1 1/2 mi. East on Hwy 96, North 2 mi.  
on FF rd. to 150 rd. East 1/8 mi. North into  
location.

Casing: 224' 8 5/8" surface casing  
4280' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3600' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Brett Dickinson"

Problems: None

Remarks: None

## Formation Tops

	American Warrior, Inc.
	Melvin #1-16
	Sec. 16 T18s R21w
	1910' FSL & 940' FWL
<b>Formation</b>	
Anhydrite	1432', +749
Base	1463', +718
Heebner	3648', -1467
Lansing	3692', -1511
BKc	4017', -1836
Pawnee	4084', -1903
Fort Scott	4162', -1981
Cherokee	4181', -2000
Mississippian	4264', -2083
RTD	4281', -2100

## Sample Zone Descriptions

**Mississippian Osage (4264', -2083):** Covered in DST #1, 2

Dolo – Δ – Fine sucrosic crystalline with poor inter-crystalline and vuggy porosity, very heavy slightly triptolic chert, weathered with fair vuggy porosity, light to fair spotted oil stain, some pieces with heavy tarry stain, no show of free oil, very light odor, dull yellow fluorescents, 7 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Brett Dickinson"

**DST #1**

**Mississippian Osage**

Interval (4266' – 4272') Anchor Length 6'

IHP	– 2132 #	
IFP	– 45" – Built to 3.5 in.	22-55 #
ISI	– 45" – Dead	1227 #
FFP	– 45" – Built to 3.5 in.	52-72 #
FSI	– 45" – Dead	1220 #
FHP	– 2065 #	
BHT	– 118°F	

Recovery:      15' VSGO  
                    100' SMWCO              80% Oil, 15% Water  
                    20' SOMCW                 10% Oil, 50% Water

**DST #2**

**Mississippian Osage**

Interval (4272' – 4278') Anchor Length 6'

IHP	– 2123 #	
IFP	– 30" – B.O.B. 12 min.	27-108 #
ISI	– 30" – Built to 1 in.	1112 #
FFP	– 30" – B.O.B. 12 min.	116-167 #
FSI	– 30" – Built to ¼ in.	1077 #
FHP	– 2056 #	
BHT	– 116°F	

Recovery:      230' SGO  
                    145' SMOCW              10% Oil, 85% Water



## Structural Comparison

	American Warrior, Inc. Melvin #1-16 Sec. 16 T18s R21w 1910' FSL & 940' FWL	Pickrell Drilling Co. Gaede C #1 Sec. 17 T18s R21w C SE SE		American Warrior, Inc. Triple M #1 Sec. 15 T18s R21w 2304' FSL & 125' FWL	
<b>Formation</b>					
Anhydrite	<b>1432', +749</b>	1416', +745	<b>(+4)</b>	1418', +753	<b>(-4)</b>
Base	<b>1463', +718</b>	NA	<b>NA</b>	1450', +721	<b>(-3)</b>
Heebner	<b>3648', -1467</b>	3625', -1464	<b>(-3)</b>	3644', -1473	<b>(-6)</b>
Lansing	<b>3692', -1511</b>	3670', -1509	<b>(-2)</b>	3680', -1509	<b>(-2)</b>
BKc	<b>4017', -1836</b>	NA	<b>NA</b>	NA	<b>NA</b>
Pawnee	<b>4084', -1903</b>	NA	<b>NA</b>	4061', -1890	<b>(-13)</b>
Fort Scott	<b>4162', -1981</b>	4150', -1989	<b>(+8)</b>	4139', -1968	<b>(-12)</b>
Cherokee	<b>4181', -2000</b>	4169', -2008	<b>(+8)</b>	4158', -1987	<b>(-13)</b>
Mississippian	<b>4264', -2083</b>	4250', -2089	<b>(+6)</b>	4232', -2061	<b>(-22)</b>

## Summary

The location for the Melvin #1-16 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Melvin #1-16 well.

## Recommended Perforations

**Mississippian Osage                      (4264' – 4277')                      DST #1, 2**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Melvin #1-16**

#### **16-18s-21w Ness,KS**

Start Date: 2013.09.24 @ 10:30:00

End Date: 2013.09.24 @ 18:49:00

Job Ticket #: 55751                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.25 @ 12:58:49



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Jason Alm

**16-18s-21w Ness, KS**  
**Melvin #1-16**  
 Job Ticket: 55751 **DST#: 1**  
 Test Start: 2013.09.24 @ 10:30:00

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:45:00  
 Time Test Ended: 18:49:00  
 Interval: **4266.00 ft (KB) To 4272.00 ft (KB) (TVD)**  
 Total Depth: 4272.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2180.00 ft (KB)  
 2175.00 ft (CF)  
 KB to GR/CF: 5.00 ft

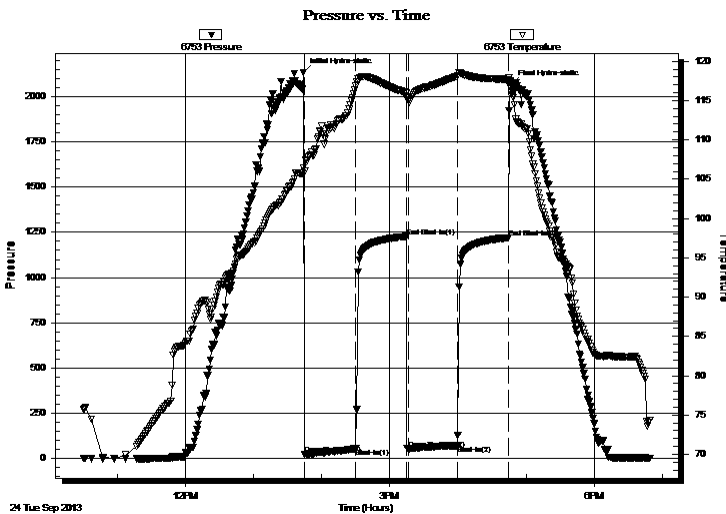
## Serial #: 6753

Inside

Press @ Run Depth: 71.84 psig @ 4267.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.09.24 End Date: 2013.09.24 Last Calib.: 2013.09.24  
 Start Time: 10:30:05 End Time: 18:48:59 Time On Btm: 2013.09.24 @ 13:44:00  
 Time Off Btm: 2013.09.24 @ 16:47:00

TEST COMMENT: IF-3 1/2" blow  
 IS-No blow  
 FF-3 1/2" blow  
 FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.49	106.47	Initial Hydro-static
1	22.97	106.00	Open To Flow (1)
46	55.15	116.90	Shut-In(1)
91	1226.88	115.96	End Shut-In(1)
92	52.67	114.98	Open To Flow (2)
136	71.84	118.11	Shut-In(2)
181	1220.21	117.62	End Shut-In(2)
183	2064.92	115.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOMCW 10%O 50%W 40%M	0.10
100.00	SMWCO 80%O 15%W 5%M	0.49
15.00	VSGO 5%G 95%O	0.21

## 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: Jason Alm

**16-18s-21w Ness, KS**  
**Melvin #1-16**  
Job Ticket: 55751 **DST#: 1**  
Test Start: 2013.09.24 @ 10:30:00

**Tool Information**

Drill Pipe:	Length: 4132.00 ft	Diameter: 3.80 inches	Volume: 57.96 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4266.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	34.00 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			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	2.00			4256.00	
Packer	5.00			4261.00	28.00 Bottom Of Top Packer
Packer	5.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	6753	Inside	4267.00	
Recorder	0.00	8319	Outside	4267.00	
Perforations	2.00			4269.00	
Bullnose	3.00			4272.00	6.00 Bottom Packers & Anchor

**Total Tool Length: 34.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**16-18s-21w Ness, KS**

PO Box 399  
Garden City KS 67846

**Melvin #1-16**

Job Ticket: 55751

**DST#: 1**

ATTN: Jason Alm

Test Start: 2013.09.24 @ 10:30:00

## 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:

25000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOMCW 10%O 50%W 40%M	0.098
100.00	SMWCO 80%O 15%W 5%M	0.492
15.00	VSGO 5%G 95%O	0.210

Total Length: 135.00 ft

Total Volume: 0.800 bbl

Num Fluid Samples: 0

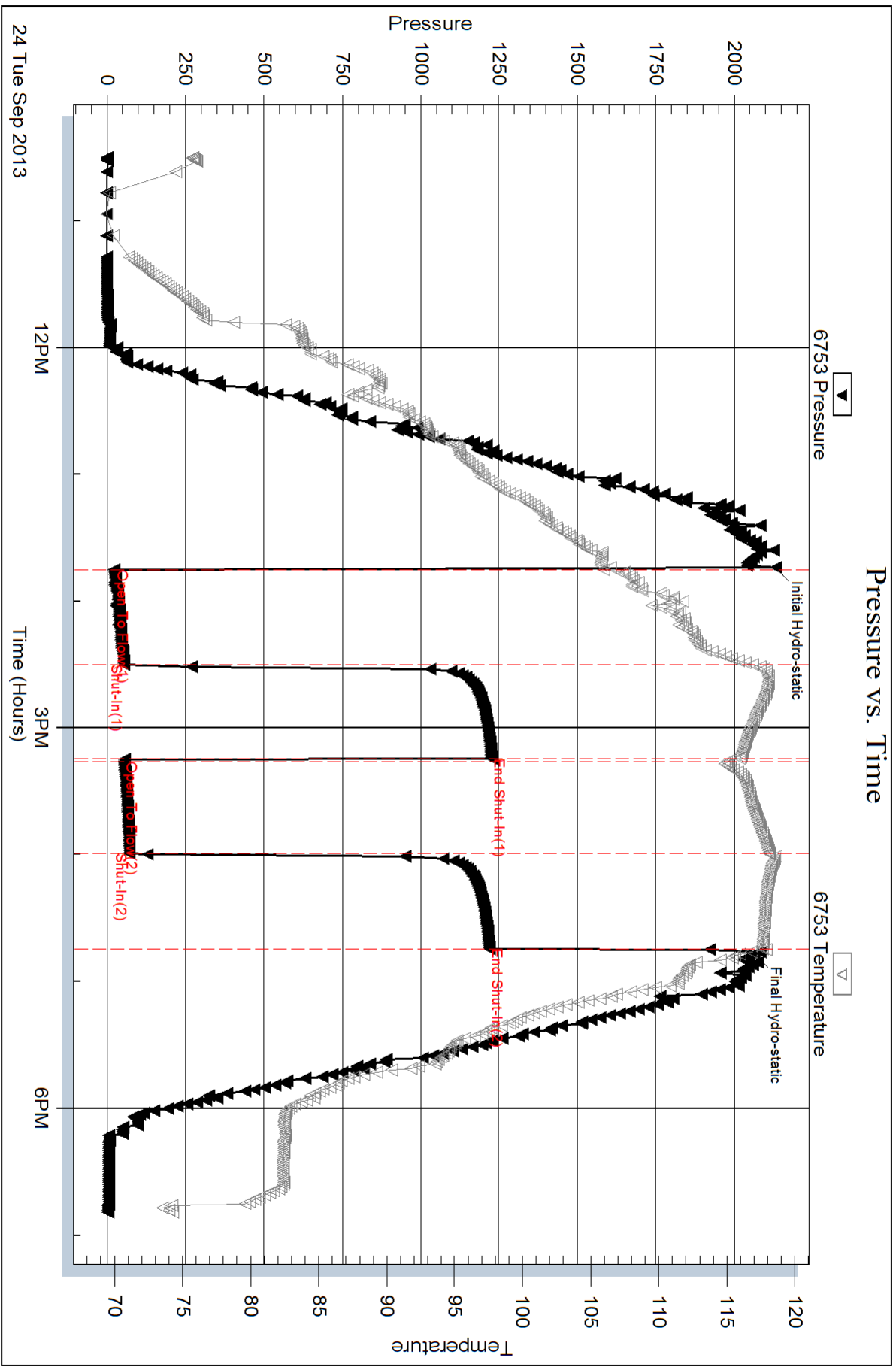
Num Gas Bombs: 0

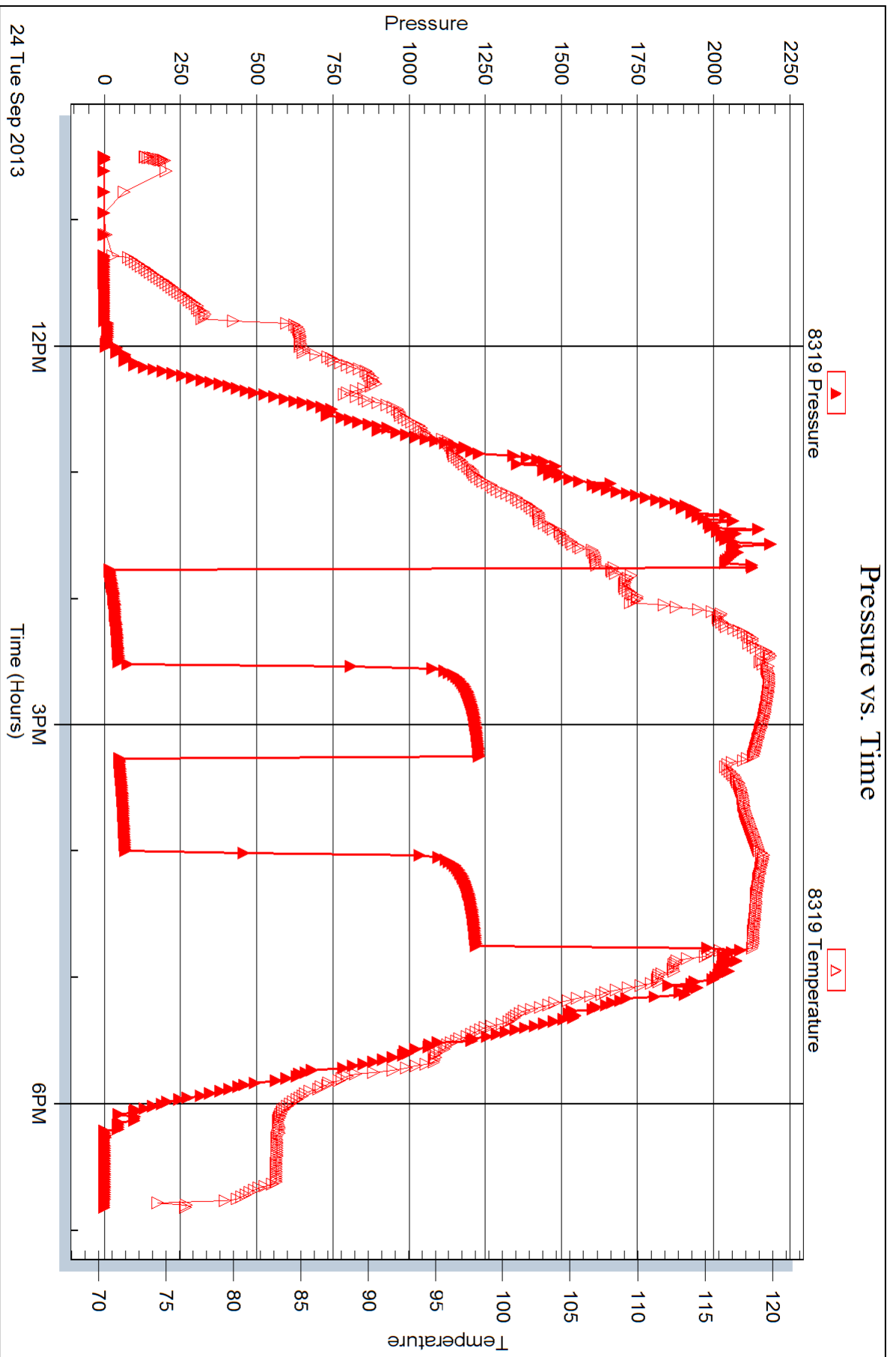
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

**Melvin #1-16**

**16-18s-21w Ness,KS**

Start Date: 2013.09.25 @ 00:30:00

End Date: 2013.09.25 @ 08:23:00

Job Ticket #: 55752                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.25 @ 12:56:01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Jason Alm

**16-18s-21w Ness, KS**  
**Melvin #1-16**  
 Job Ticket: 55752 **DST#: 2**  
 Test Start: 2013.09.25 @ 00:30:00

## GENERAL INFORMATION:

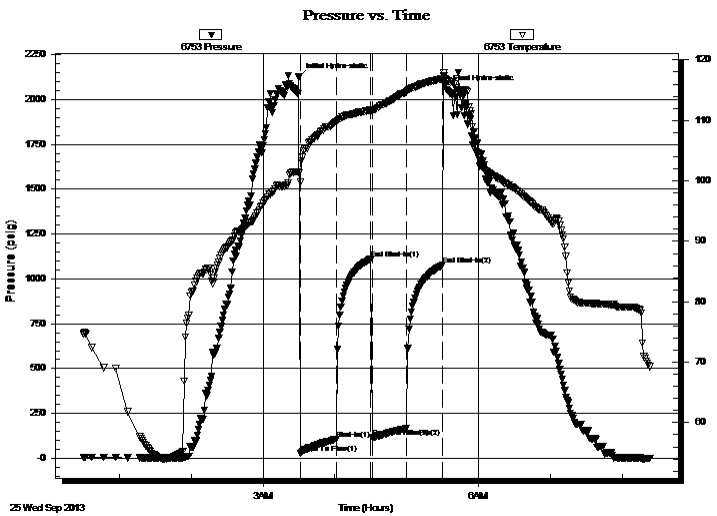
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 03:31:00 Tester: Brett Dickinson  
 Time Test Ended: 08:23:00 Unit No: 59  
 Interval: **4272.00 ft (KB) To 4278.00 ft (KB) (TVD)** Reference Elevations: 2180.00 ft (KB)  
 Total Depth: 4278.00 ft (KB) (TVD) 2175.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

## Serial #: 6753 Inside

Press @ Run Depth: 166.73 psig @ 4273.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.09.25 End Date: 2013.09.25 Last Calib.: 2013.09.25  
 Start Time: 00:30:05 End Time: 08:22:59 Time On Btm: 2013.09.25 @ 03:30:00  
 Time Off Btm: 2013.09.25 @ 05:33:00

TEST COMMENT: IF-BOB in 12 min  
 ISI-1" blow  
 FF-BOB in 12 min  
 FSI-1/4" blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.62	101.32	Initial Hydro-static
1	27.80	99.75	Open To Flow (1)
31	108.03	109.78	Shut-In(1)
60	1112.24	111.71	End Shut-In(1)
61	116.64	111.50	Open To Flow (2)
90	166.73	114.66	Shut-In(2)
120	1077.08	116.90	End Shut-In(2)
123	2055.78	116.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
145.00	SMOCW 10%O 85%W 5%M	0.94
230.00	SGO 10%G 90%O	3.23

\* 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.

**16-18s-21w Ness, KS**

PO Box 399  
Garden City KS 67846

**Melvin #1-16**

Job Ticket: 55752

**DST#: 2**

ATTN: Jason Alm

Test Start: 2013.09.25 @ 00:30:00

## Tool Information

Drill Pipe:	Length: 4154.00 ft	Diameter: 3.80 inches	Volume: 58.27 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4272.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 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			4245.00	
Shut In Tool	5.00			4250.00	
Hydraulic tool	5.00			4255.00	
Jars	5.00			4260.00	
Safety Joint	2.00			4262.00	
Packer	5.00			4267.00	28.00 Bottom Of Top Packer
Packer	5.00			4272.00	
Stubb	1.00			4273.00	
Recorder	0.00	6753	Inside	4273.00	
Recorder	0.00	8319	Outside	4273.00	
Perforations	2.00			4275.00	
Bullnose	3.00			4278.00	6.00 Bottom Packers & Anchor

**Total Tool Length: 34.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**16-18s-21w Ness, KS**

PO Box 399  
Garden City KS 67846

**Melvin #1-16**

Job Ticket: 55752

**DST#: 2**

ATTN: Jason Alm

Test Start: 2013.09.25 @ 00:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
145.00	SMOCW 10%O 85%W 5%M	0.941
230.00	SGO 10%G 90%O	3.226

Total Length: 375.00 ft

Total Volume: 4.167 bbf

Num Fluid Samples: 0

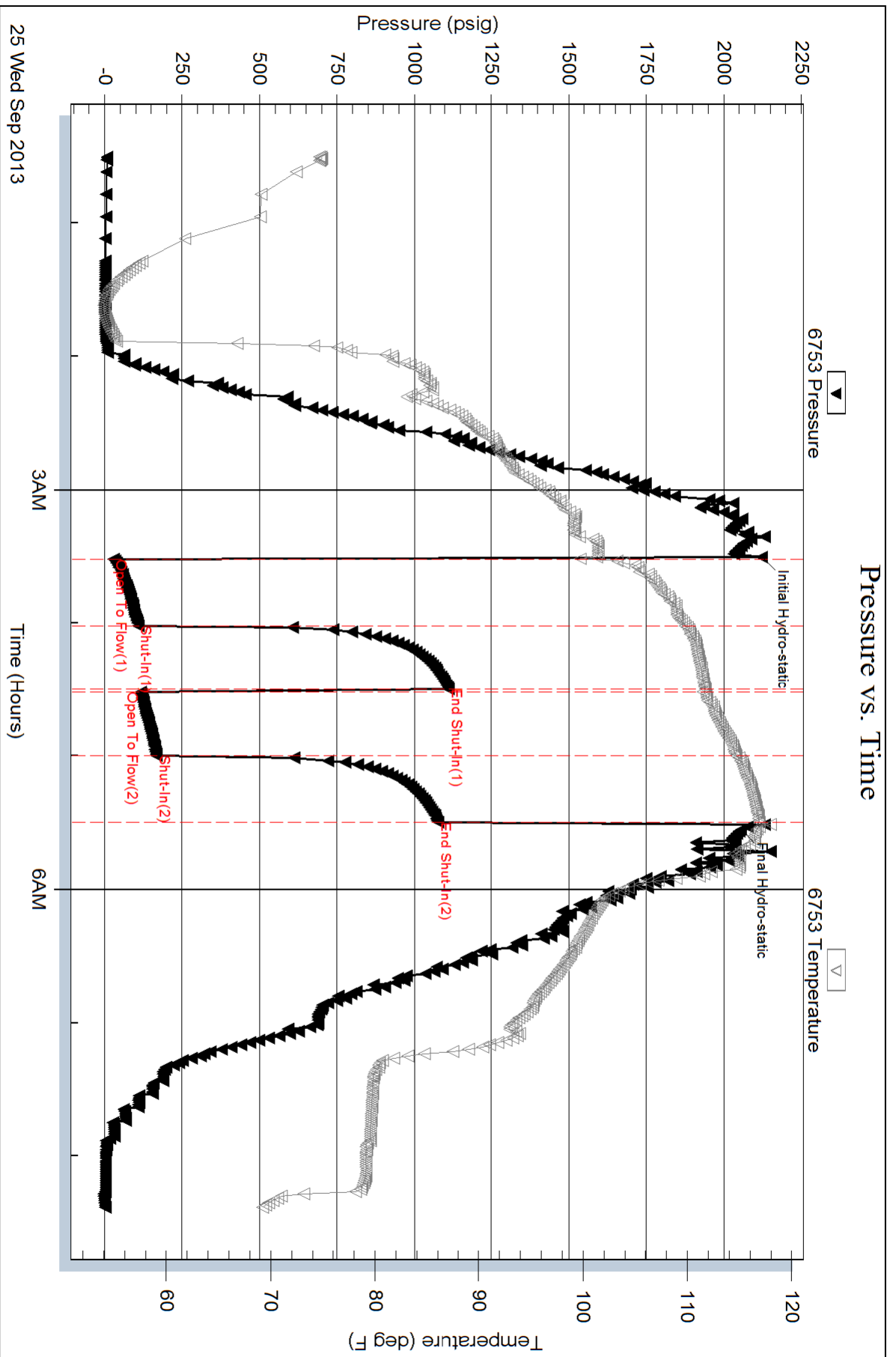
Num Gas Bombs: 0

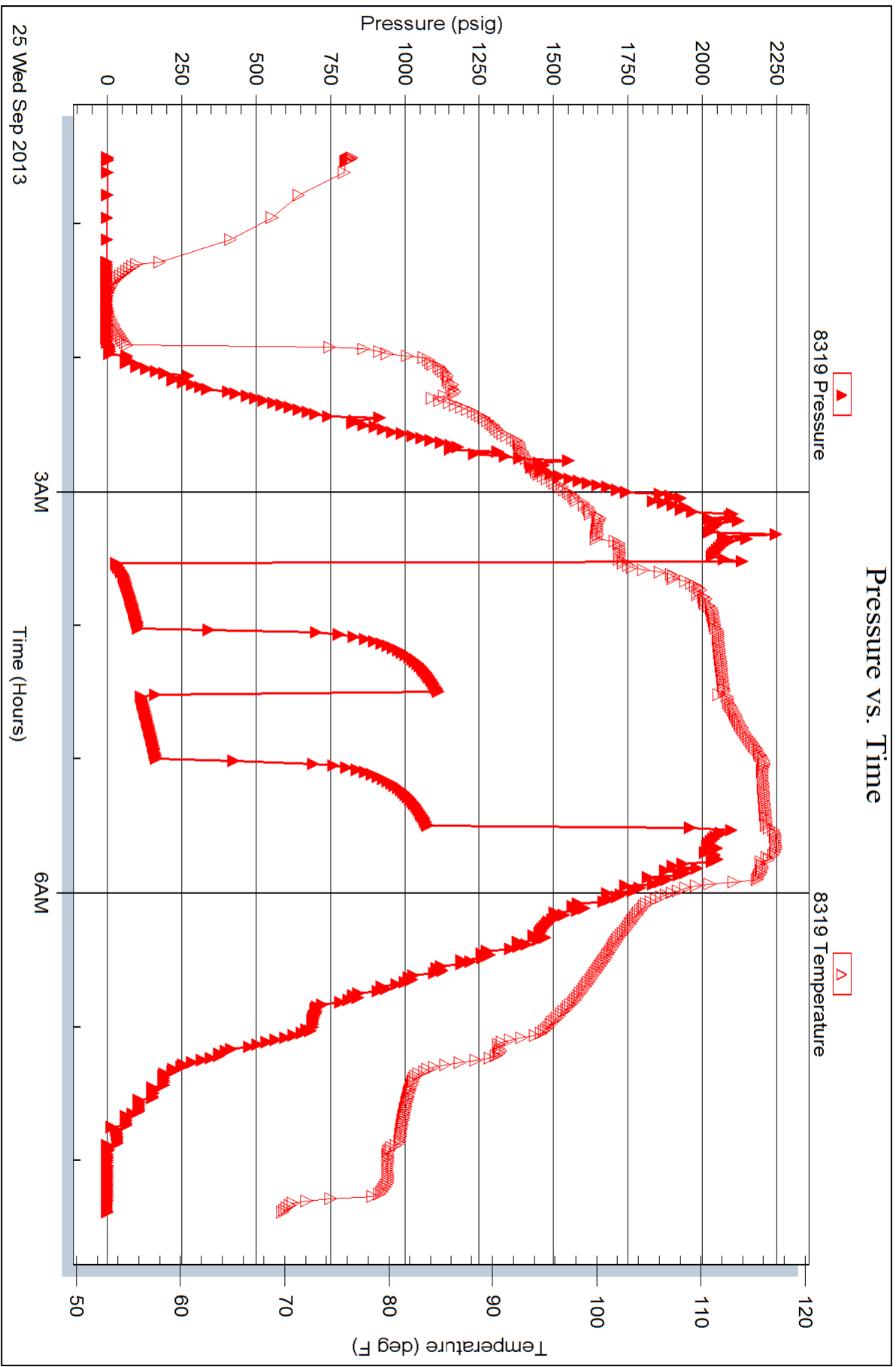
Serial #:

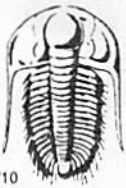
Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55751**

4/10

Well Name & No. Melvin #1-16 Test No. 1 Date 9/24/13  
 Company American Warrior, Inc. Elevation 2180 KB 2175 GL  
 Address PO Box 399 Garden City KS 67846  
 Co. Rep / Geo. \_\_\_\_\_ Rig Pctromark #1  
 Location: Sec. 16 Twp. 18 Rge. 21 Co. NeSS State KS

Interval Tested 4266 - 4272 Zone Tested Miss  
 Anchor Length 6 Drill Pipe Run 4122 Mud Wt. 9.3  
 Top Packer Depth 4261 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 4266 Wt. Pipe Run — WL 9.6  
 Total Depth 4272 Chlorides 7,600 ppm System LCM \_\_\_\_\_  
 Blow Description IF - 3 1/2 in blow  
75 ft - No blow  
ft - 3 1/2 in blow  
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>VS60</u>	<u>5</u>	<u>95</u>		
<u>60</u>	<u>SIMWCO</u>	<u>80</u>	<u>15</u>	<u>5</u>	
<u>60</u>	<u><del>SATWCO</del> SOMCW</u>	<u>10</u>	<u>50</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 135 BHT 118 Gravity \_\_\_\_\_ API RW .24 @ 80° F Chlorides 25,00 ppm

(A) Initial Hydrostatic 2132  Test 1250 T-On Location 10:15  
 (B) First Initial Flow 83  Jars 250 T-Started 10:45  
 (C) First Final Flow 55  Safety Joint 75 T-Open 13:50  
 (D) Initial Shut-In 1,227  Circ Sub \_\_\_\_\_ T-Pulled 16:50  
 (E) Second Initial Flow 53  Hourly Standby \_\_\_\_\_ T-Out 18:55  
 (F) Second Final Flow 72  Mileage 104 - T161.20 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,220  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,065  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 45  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 46  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 45 Sub Total 0  
 Total 1736.20  
 Sub Total 1736.20 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. **55752**

4/10

Well Name & No. Melvin #1-16 Test No. 2 Date 9/25/13  
 Company American Warrior, Inc. Elevation 2180 KB 2175 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jason Alm Rig Petromark #1  
 Location: Sec. 16 Twp. 18 Rge. 21 Co. Nes State KS

Interval Tested 4272 - 4278 Zone Tested MISS  
 Anchor Length 6 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 4267 Drill Collars Run 120 Vis 5.8  
 Bottom Packer Depth 4272 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4278 Chlorides 2606 ppm System LCM \_\_\_\_\_

Blow Description 7F - BOB in 12 min  
FSI - 1 in blow  
FF - BOB in 12 min  
FSI - 1/4 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>230</u>	<u>SGO</u>	<u>10</u>	<u>90</u>		
<u>145</u>	<u>SMOCW</u>		<u>10</u>	<u>85</u>	<u>5</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 375 BHT 117 Gravity 32 API RW 28 @ 65 °F Chlorides 2700 ppm  
 (A) Initial Hydrostatic 2,124  Test 1250 T-On Location 00:15  
 (B) First Initial Flow 28  Jars 250 T-Started 00:30  
 (C) First Final Flow 108  Safety Joint 75 T-Open 3:30  
 (D) Initial Shut-In 4,112  Circ Sub \_\_\_\_\_ T-Pulled 5:30  
 (E) Second Initial Flow 117  Hourly Standby \_\_\_\_\_ T-Out 28:25  
 (F) Second Final Flow 167  Mileage 104.7 161.20  
 (G) Final Shut-In 1,077  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,056  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1736.20  
 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.

# ALLIED OIL & GAS SERVICES, LLC 061817

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Georgetown TX

DATE <u>4-19-13</u>	SEC. <u>16</u>	TWP. <u>18S</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30</u>	JOB FINISH <u>3:30</u>
LEASE <u>Melvin</u>	WELL # <u>1-16</u>	LOCATION <u>Bazine 2 E 2N 1/2 E</u>	COUNTY <u>NESS</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>			<u>INTD</u>				

CONTRACTOR Petro Mark Drilling #1  
 TYPE OF JOB gas face  
 HOLE SIZE 12 1/4 T.D.  
 CASING SIZE 5 1/2 DEPTH 224.64  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15 ft  
 PERFS.  
 DISPLACEMENT 13.35 bbls Freshwater  
 EQUIPMENT  
 PUMP TRUCK CEMENTER Dustin Chambers  
 # 394 HELPER Mike Scoborn  
 BULK TRUCK  
 # 629-112 DRIVER Kevin Weighers  
 BULK TRUCK  
 # DRIVER

OWNER  
 CEMENT  
 AMOUNT ORDERED 150 sks class A  
3 1/2 cc 24 gal  
 COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 ASC @  
 HANDLING @  
 MILEAGE  
 TOTAL

**REMARKS:**

Break circulation with rig mud  
run 5 bbls Freshwater Ahead  
mix 150 sks class A 3 1/2 cc 24 gal  
Displace 13.35 bbls Freshwater & Austin  
cohen & did circulate  
plug down 3:20 AM  
plug down

CHARGE TO: American World  
 STREET  
 CITY STATE ZIP

**SERVICE**

DEPTH OF JOB  
 PUMP TRUCK CHARGE  
 EXTRA FOOTAGE @  
 MILEAGE @  
 MANIFOLD @  
 TOTAL

**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.

PRINTED NAME x Chris Steverson  
 SIGNATURE x [Signature]  
Thank You!!

SALES TAX (If Any)  
 TOTAL CHARGES  
 DISCOUNT IF PAID IN 30 DAYS

Date 9-19-13 District Greentown Ticket No. 61517  
 Company American Energy Rig PERFORMER  
 Lease Melvin Well No. 1-16  
 County Ness State KS  
 Location Section 2E 2N 16E Field IV 1070

CEMENT DATA: Freshwater  
 Spacer Type: \_\_\_\_\_  
 Amt. 56 bbls Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 6.34 PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type new Weight 24.4 Collar SR2

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

Casing Depths: Top KB Bottom 224.65

TAIL: Pump Time \_\_\_\_\_ hrs. Type CLASS A  
 Amt. 150 Skys Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls

Drill Pipe: Size 4 1/2 Weight 16.6 Collars 2-hite  
 Open Hole: Size 12 1/4 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Pump Trucks Used 398 - Mike's  
 Bulk Equip. 651-112 - Kevin W

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 12637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. 242 Lin. ft./Bbl. 72.32  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type Freshwater Amt. \_\_\_\_\_ Bbls. Weight 6234 PPG  
 Mud Type Water 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	
						2N WORKER - Rig up Had safety meeting
						Run 5 1/2 casing Break circulation with Bit mud Hook up cement pump
					56 bbls	pump 56 bbls Freshwater Ahead
			43.79	35.79		mix 150 gals CLASS A 3-1/2" 2-1/2" gel
			54.14	13.35		2-1/2" 2-1/2" 13.35 bbls Freshwater 9 shot in
						Cement Did not cure
						Plug Down 3:00 AM
						Run Down



JOB LOG

SWIFT Services, Inc.

DATE SEP 13 PAGE NO.

CUSTOMER *Andrew / Assoc*

WELL NO. *-16*

LEASE *Melville*

JOB TYPE *Cement long string*

TICKET NO. *24731*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175sk EA-2 cement w/ 4" floccle
								TD = 4282' total pipe 4283' Burst 5,68
								shoe pt 4238' Cent 1,2,3,4,67
								Pool Coltr #68 1400' j/sol 1300'
								102 j/s 5" 155" casing
	1630							on loc TRK HT
	1710							start 5" 155 casing in well
	1915							Drop ball - circulate - ROTATE
	1945	4 1/2	12				300	Pump 500 gal mudt 10sk
		4 1/4	20				300	Pump 20 bbl KCh flush
	1952		7					Plg RH <del>30sk</del>
	1955	4 1/4	35				500	m. EA-2 cement <del>145sk</del> @ 153 ppg
	2005							Drop latch dump plug
								Wash out pumps line
	2010	6 1/4					300	Displace plug
		6 1/4	90				800	
	2030	6 1/4	109				1550	Land plug
	2032							Release pressure to truck - dried up
								wash truck
								PACK UP
	2110							job complete
								thanks
								Flint, Blaine, ROB DAVE



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET 24731

CUSTOMER American Ubbior

WE Melvin 1-16

DATE 10/13 PAGE 21 OF 2

QTY	DESCRIPTION	UNIT	WEIGHT	PRICE	TOTAL
1	STANDARD cement (60% 4-2)	sk	175	14.00	2450.00
1	casual	sk	800	35.00	2800.00
1	SALT	lb	900	0.120	180.00
1	halad-322	lb	135	7.75	968.75
1	foale	lb	50	2.00	100.00
1	mudfish	lb	500	1.25	625.00
1	kgal Diquid	gal	200	25.00	500.00
1	D-Air	gal	200	42.00	8400.00
1	Digral (min)	cu ft	1	250.00	250.00
1	SERVICE CHARGE		175	2.00	350.00
	TOTAL WEIGHT				5397.75
	LOADED MILES				
	CUBIC FEET				
	TON MILES				

SWIFT



Services, Inc.

CHARGE TO: American Varrick  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET  
 No. **24747**

PAGE 1 OF 1

1. WELL/PROJECT NO. 1-16 LEASE Melvin COUNTY/PARISH Neos STATE KS CITY Bazine DATE 11 Oct 13 OWNER \_\_\_\_\_  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR \_\_\_\_\_ RIG NAME/NO. \_\_\_\_\_ ORDER NO. \_\_\_\_\_  
 3. WELL TYPE \_\_\_\_\_ WELL CATEGORY H-B JOB PURPOSE Development cement port collar DELIVERED TO location WELL PERMIT NO. \_\_\_\_\_  
 4. WELL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

INVOICE PART NUMBER	SECONDARY REFERENCE/	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF						
575					TR 114	20	mi	6.00	120.00	
576D					Pump Charge	1	04	1500.00	1500.00	
330					SKD cement	125	sk	17.00	2125.00	
276					Flange	50	lb	2.00	100.00	
290					D-air	1	04	42.00	42.00	
D1					Port collar tool rental	1	04	250.00	250.00	
382					Dragee (win)	1	04	250.00	250.00	
381					Service charge cement	175	sk	2.00	350.00	

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED Scott TIME SIGNED 10:00  AM  PM

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 473.85

TOTAL 4891.80

SWIFT OPERATOR \_\_\_\_\_ APPROVAL \_\_\_\_\_  
 CUSTOMER ACCEPTANCE \_\_\_\_\_  
 DATE 11/11  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE OCT 13 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-16 LEASE Melvin JOB TYPE Cement port collar TICKET NO. 24747

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sks SMD cement w/ 4" floccula 2 3/8" x 5 1/2" port collar 1400'
	0830							on loc TRK 114
	0851					1000	1000	lost to 1000 psi - hold open port collar
	0900	3 1/2	2			450		inj rate 3 1/2 bpm @ 450 psi
	0904	3 1/2				450		mix SMD cement @ 11.2 ppg fluid to surface
		3 1/2	2			450		
	0905	3 1/2	67			500		— cement to surface —
								} 125 sk mix 20 to pit }
	0929	3 1/2	4 1/2			500		
								close port collar
	0938					1000	1000	lost to 1000 psi - hold
	0948		20					Reverse hole clean - 2 cement plugs -
								wash truck
								Rack up
	1030							job complete thank Blaine Flint & Co.