



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1225614  
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: \_\_\_\_\_

1225614

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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## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Adam Folk

### **Tempero #6-23**

#### **23-17s-14w Barton,KS**

Start Date: 2014.08.03 @ 09:15:00

End Date: 2014.08.03 @ 15:38:00

Job Ticket #: 60251                      DST #: 1

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

Printed: 2014.08.07 @ 11:02:26



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Adam Folk

**23-17s-14w Barton,KS**  
**Temporo #6-23**  
Job Ticket: 60251 **DST#: 1**  
Test Start: 2014.08.03 @ 09:15:00

## GENERAL INFORMATION:

Formation: **LKC B-D**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:25:00  
Time Test Ended: 15:38:00  
Interval: **3219.00 ft (KB) To 3250.00 ft (KB) (TVD)**  
Total Depth: 3250.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: S1 Hays/98  
Reference Elevations: 1915.00 ft (KB)  
1907.00 ft (CF)  
KB to GR/CF: 8.00 ft

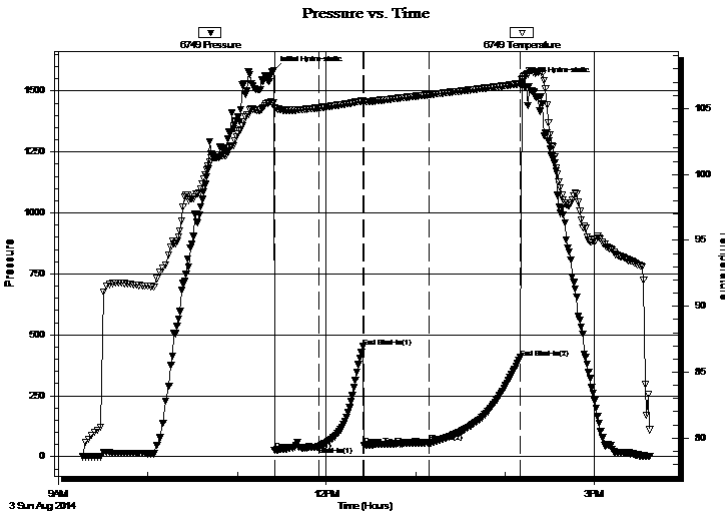
## Serial #: 6749

Inside

Press@RunDepth: 57.52 psig @ 3246.00 ft (KB) Capacity: 5000.00 psig  
Start Date: 2014.08.03 End Date: 2014.08.03 Last Calib.: 2014.08.03  
Start Time: 09:16:00 End Time: 15:38:00 Time On Btm: 2014.08.03 @ 11:24:30  
Time Off Btm: 2014.08.03 @ 14:12:00

TEST COMMENT: IFP - 30 - Weak blow /Blow built to 2 1/2 inches  
ISI - 30 - No blow back  
FFP - 45 - Fair blow /Blow built to 10 inches  
FSI - 60 -Slight surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.65	105.42	Initial Hydro-static
1	26.27	105.07	Open To Flow (1)
31	41.34	105.06	Shut-In(1)
60	451.14	105.59	End Shut-In(1)
61	47.40	105.51	Open To Flow (2)
105	57.52	106.04	Shut-In(2)
166	406.47	106.89	End Shut-In(2)
168	1538.94	107.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	110 feet of gas in pipe	0.00
60.00	Oil cut Mud/Oil 5% Mud 95%	0.84
10.00	Muddy Oil/Mud 40% Oil 60%	0.14

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Adam Folk

**23-17s-14w Barton, KS**

**Tempero #6-23**

Job Ticket: 60251      **DST#: 1**  
 Test Start: 2014.08.03 @ 09:15:00

## GENERAL INFORMATION:

Formation: **LKC B-D**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 11:25:00  
 Time Test Ended: 15:38:00  
 Interval: **3219.00 ft (KB) To 3250.00 ft (KB) (TVD)**  
 Total Depth: 3250.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Hays/98  
 Reference Elevations: 1915.00 ft (KB)  
 1907.00 ft (CF)  
 KB to GR/CF: 8.00 ft

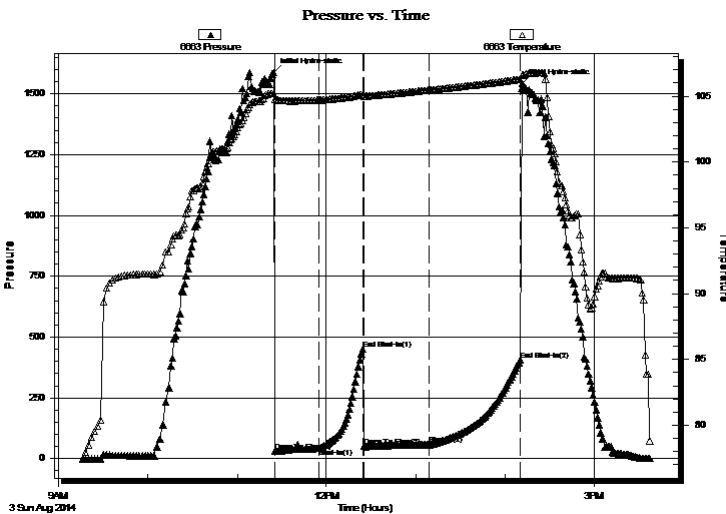
## Serial #: 6663

**Outside**

Press@RunDepth: 406.58 psig @ 3247.00 ft (KB)      Capacity: 5000.00 psig  
 Start Date: 2014.08.03      End Date: 2014.08.03      Last Calib.: 2014.08.03  
 Start Time: 09:16:00      End Time: 15:38:00      Time On Btm: 2014.08.03 @ 11:24:30  
 Time Off Btm: 2014.08.03 @ 14:12:00

TEST COMMENT: IFP - 30 - Weak blow /Blow built to 2 1/2 inches  
 ISI - 30 - No blow back  
 FFP - 45 - Fair blow /Blow built to 10 inches  
 FSI - 60 -Slight surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.74	105.21	Initial Hydro-static
1	29.25	104.77	Open To Flow (1)
31	42.93	104.70	Shut-In(1)
60	451.80	105.13	End Shut-In(1)
61	49.56	105.01	Open To Flow (2)
105	59.51	105.45	Shut-In(2)
167	406.58	106.28	End Shut-In(2)
168	1540.59	106.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	110 feet of gas in pipe	0.00
60.00	Oil cut Mud/Oil 5% Mud 95%	0.84
10.00	Muddy Oil/Mud 40% Oil 60%	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Adam Folk

**23-17s-14w Barton,KS**  
**Tempero #6-23**  
Job Ticket: 60251      **DST#: 1**  
Test Start: 2014.08.03 @ 09:15:00

**Tool Information**

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.80 inches	Volume: 45.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	34000.00 lb
			<u>Total Volume: 45.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	24000.00 lb
Depth to Top Packer:	3219.00 ft			Final	24000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Ruined Packer

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut-In Tool	5.00			3204.00	
Hydraulic tool	5.00			3209.00	
Top Packer	5.00			3214.00	
Packer	5.00			3219.00	20.00      Bottom Of Top Packer
Anchor	26.00			3245.00	
Recorder	1.00	6749	Inside	3246.00	
Recorder	1.00	6663	Outside	3247.00	
Bullnose	3.00			3250.00	31.00      Anchor Tool

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Adam Folk

**23-17s-14w Barton,KS**  
**Tempero #6-23**  
Job Ticket: 60251      **DST#: 1**  
Test Start: 2014.08.03 @ 09:15:00

## 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	110 feet of gas in pipe	0.000
60.00	Oil cut Mud/Oil 5% Mud 95%	0.842
10.00	Muddy Oil/Mud 40% Oil 60%	0.140

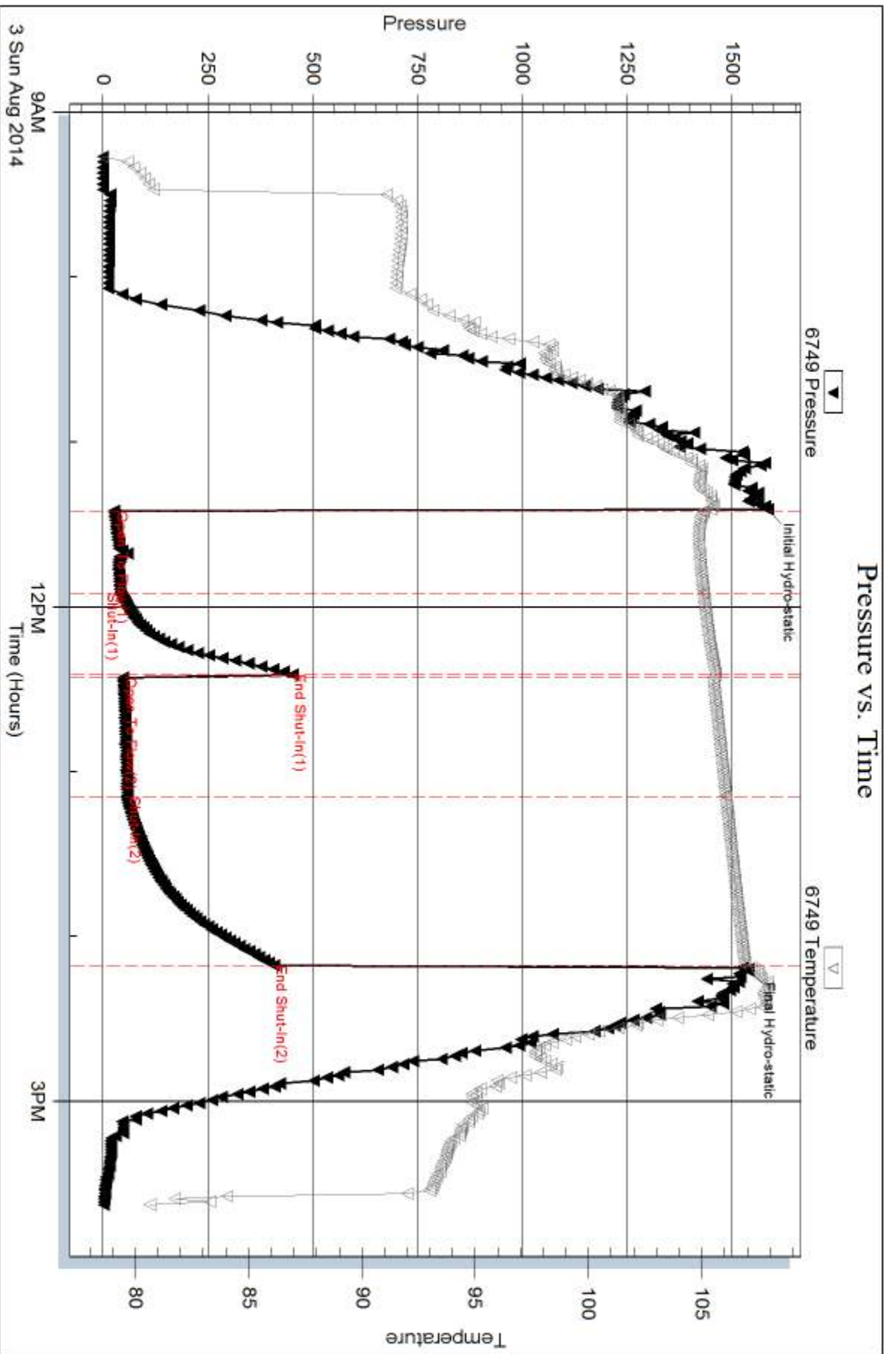
Total Length: 70.00 ft      Total Volume: 0.982 bbl

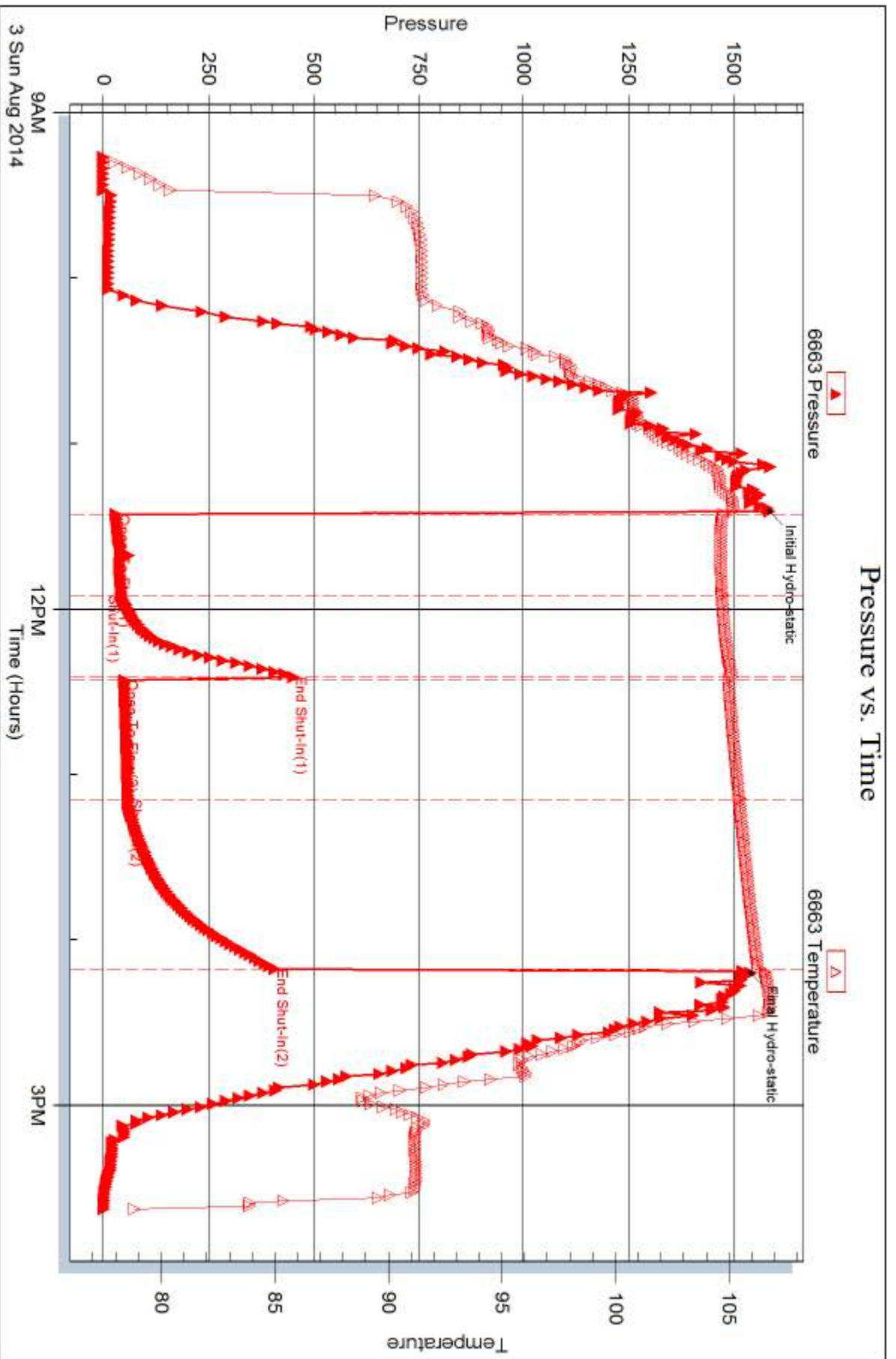
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Adam Folk

### **Tempero #6-23**

#### **23-17s-14w Barton,KS**

Start Date: 2014.08.04 @ 04:37:00

End Date: 2014.08.04 @ 09:43:00

Job Ticket #: 60252                      DST #: 2

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

Printed: 2014.08.07 @ 11:02:02



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Adam Folk

**23-17s-14w Barton,KS**  
**Temporo #6-23**  
 Job Ticket: 60252 **DST#: 2**  
 Test Start: 2014.08.04 @ 04:37:00

## GENERAL INFORMATION:

Formation: **LKC J&K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:04:00  
 Time Test Ended: 09:43:00  
 Interval: **3279.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: 3330.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1  
 Reference Elevations: 1915.00 ft (KB)  
 1907.00 ft (CF)  
 KB to GR/CF: 8.00 ft

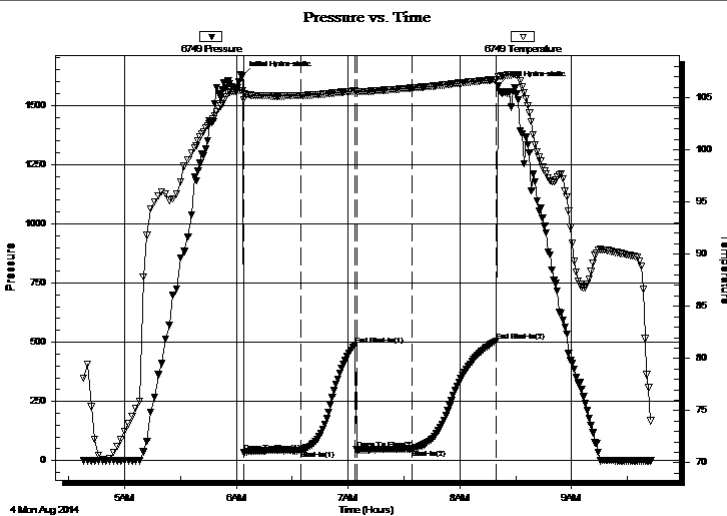
## Serial #: 6749

Inside

Press@RunDepth: 49.93 psig @ 3326.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.08.04 End Date: 2014.08.04 Last Calib.: 2014.08.04  
 Start Time: 04:38:00 End Time: 09:43:00 Time On Btm: 2014.08.04 @ 06:03:30  
 Time Off Btm: 2014.08.04 @ 08:20:30

TEST COMMENT: IFP - 30 - Weak blow /Blow built to 1 1/2 inches  
 ISI - 30 - No blow back  
 FFP - 30 - Very weak blow /Blow built to 1/4 inch  
 FSI - 45 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.85	105.70	Initial Hydro-static
1	36.47	104.82	Open To Flow (1)
31	44.31	105.20	Shut-In(1)
60	489.22	105.64	End Shut-In(1)
61	46.00	105.56	Open To Flow (2)
91	49.93	105.92	Shut-In(2)
136	506.07	106.73	End Shut-In(2)
137	1581.67	107.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w with show of oil/Mud 100%	0.42

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Adam Folk

**23-17s-14w Barton, KS**  
**Temporo #6-23**  
 Job Ticket: 60252 **DST#: 2**  
 Test Start: 2014.08.04 @ 04:37:00

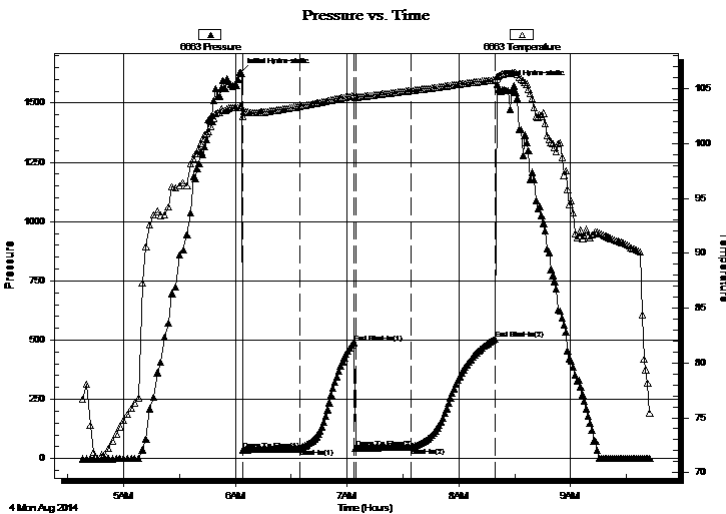
## GENERAL INFORMATION:

Formation: **LKC J&K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:04:00  
 Time Test Ended: 09:43:00  
 Interval: **3279.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: 3330.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1  
 Reference Elevations: 1915.00 ft (KB)  
 1907.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 504.87 psig @ 3327.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.08.04 End Date: 2014.08.04 Last Calib.: 2014.08.04  
 Start Time: 04:38:00 End Time: 09:43:00 Time On Btm: 2014.08.04 @ 06:03:00  
 Time Off Btm: 2014.08.04 @ 08:20:30

**TEST COMMENT:** IFP - 30 - Weak blow /Blow built to 1 1/2 inches  
 ISI - 30 - No blow back  
 FFP - 30 - Very weak blow /Blow built to 1/4 inch  
 FSI - 45 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.67	103.33	Initial Hydro-static
1	36.67	102.49	Open To Flow (1)
32	44.10	103.40	Shut-In(1)
61	489.24	104.36	End Shut-In(1)
62	44.90	104.25	Open To Flow (2)
92	48.71	104.83	Shut-In(2)
137	504.87	105.80	End Shut-In(2)
138	1580.34	106.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w with show of oil/Mud 100%	0.42

## 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: Adam Folk

**23-17s-14w Barton,KS**  
**Tempero #6-23**  
Job Ticket: 60252      **DST#: 2**  
Test Start: 2014.08.04 @ 04:37:00

**Tool Information**

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.80 inches	Volume: 46.09 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	26000.00 lb
			<u>Total Volume: 46.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	20000.00 lb
Depth to Top Packer:	3279.00 ft			Final	20000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut-In Tool	5.00			3264.00	
Hydraulic tool	5.00			3269.00	
Top Packer	5.00			3274.00	
Packer	5.00			3279.00	20.00      Bottom Of Top Packer
Anchor	46.00			3325.00	
Recorder	1.00	6749	Inside	3326.00	
Recorder	1.00	6663	Outside	3327.00	
Bullnose	3.00			3330.00	51.00      Anchor Tool

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Adam Folk

**23-17s-14w Barton,KS**  
**Tempero #6-23**  
Job Ticket: 60252      **DST#: 2**  
Test Start: 2014.08.04 @ 04:37:00

## Mud and Cushion Information

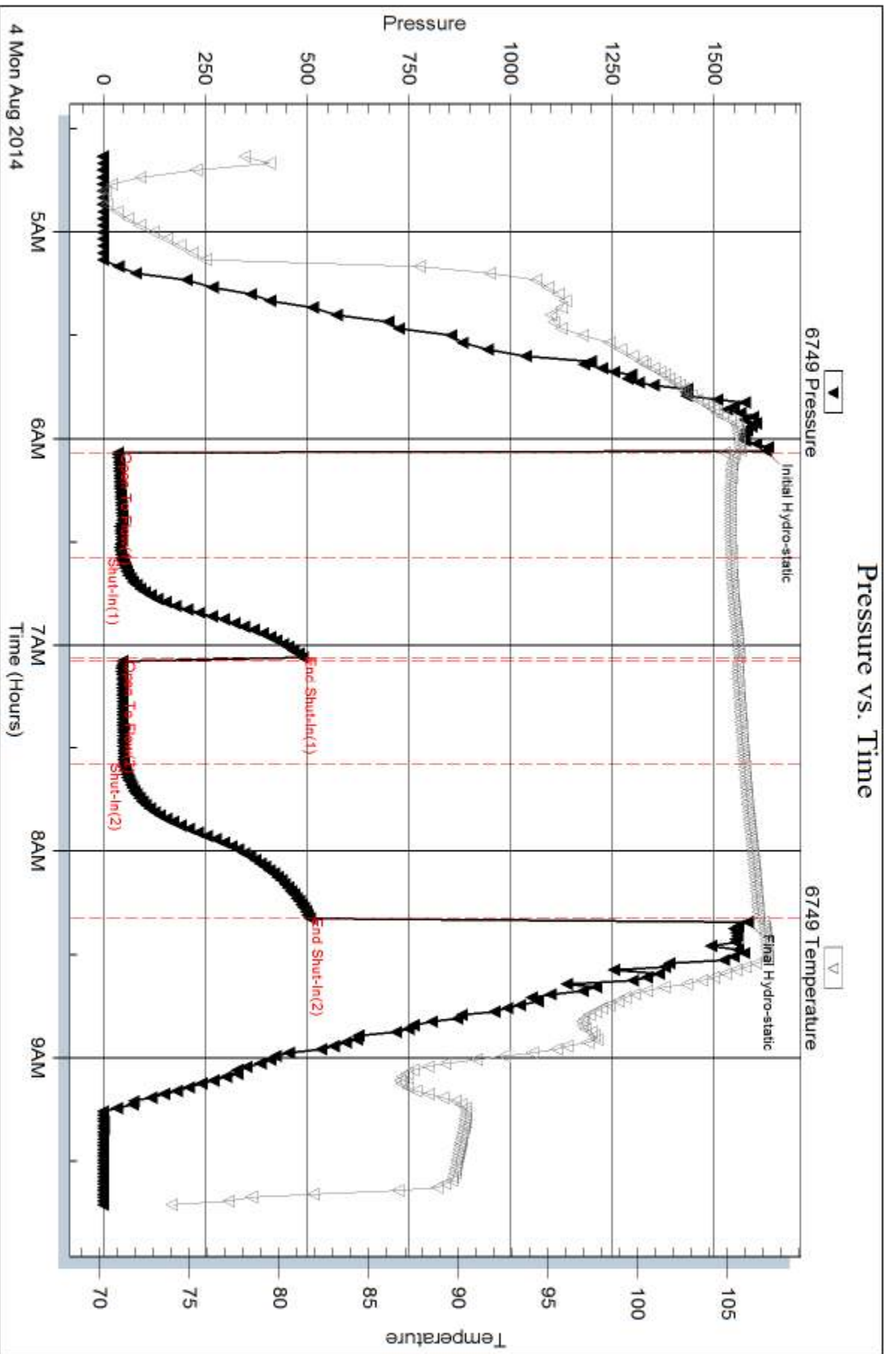
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

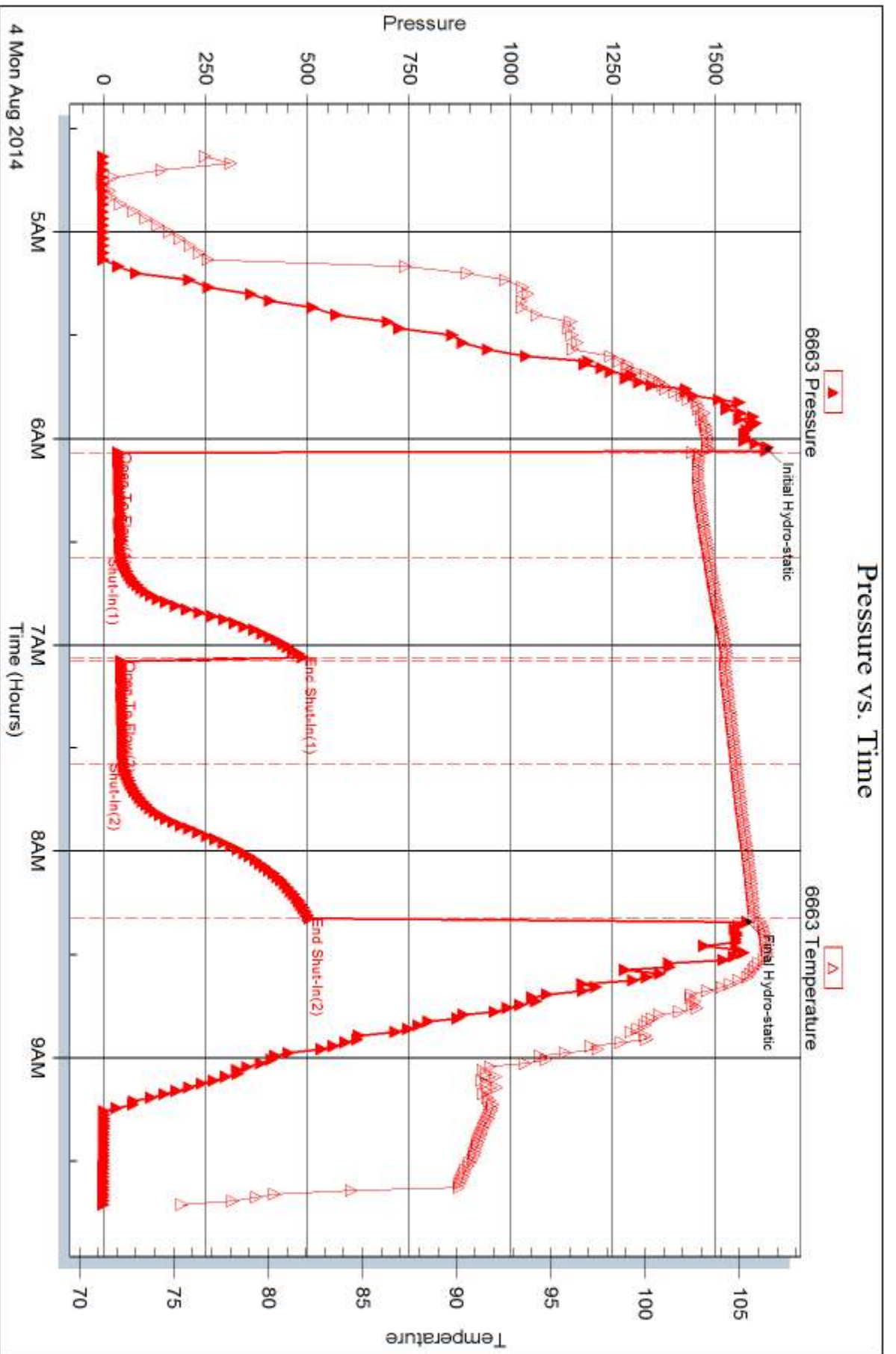
Recovery Table

Length ft	Description	Volume bbl
30.00	Mud with show of oil/Mud 100%	0.421

Total Length: 30.00 ft      Total Volume: 0.421 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: Adam Folk

### **Tempero #6-23**

#### **23-17s-14w Barton,KS**

Start Date: 2014.08.04 @ 23:08:00

End Date: 2014.08.05 @ 05:25:30

Job Ticket #: 60253                      DST #: 3

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

Printed: 2014.08.07 @ 11:01:19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Adam Folk

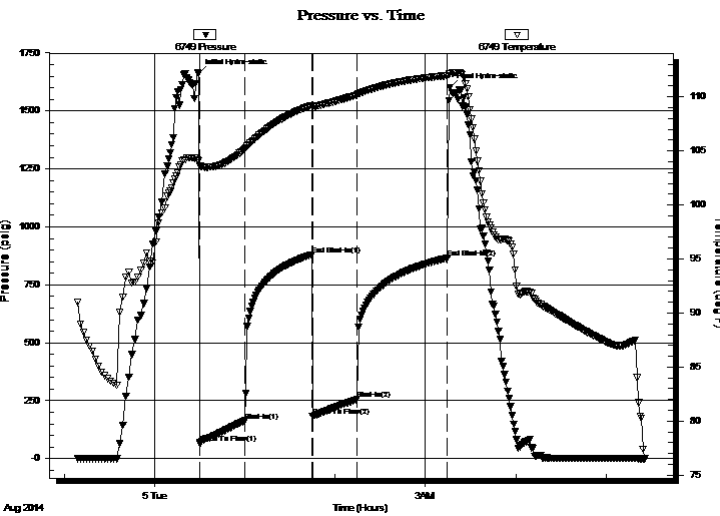
**23-17s-14w Barton, KS**  
**Tempero #6-23**  
 Job Ticket: 60253 **DST#: 3**  
 Test Start: 2014.08.04 @ 23:08:00

## GENERAL INFORMATION:

Formation: **BKC - Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:30:00 Tester: Ken Swinney  
 Time Test Ended: 05:25:30 Unit No: S1 Hays/98  
 Interval: **3348.00 ft (KB) To 3399.00 ft (KB) (TVD)** Reference Elevations: 1915.00 ft (KB)  
 Total Depth: 3399.00 ft (KB) (TVD) 1907.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press@RunDepth: 255.45 psig @ 3395.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.08.04 End Date: 2014.08.05 Last Calib.: 2014.08.05  
 Start Time: 23:09:00 End Time: 05:25:30 Time On Btm: 2014.08.05 @ 00:29:30  
 Time Off Btm: 2014.08.05 @ 03:16:30

**TEST COMMENT:** IFP - 30 Good blow /Blow built to bottom of bucket in 3 minutes 45 seconds  
 ISI - 45 Blow back built to 2 1/2 inches  
 FFP - 30 Good blow /Blow built to bottom of bucket in 7 minutes  
 FSI - 60 Blow back built to 1/2 inch



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.57	104.06	Initial Hydro-static
1	65.74	103.64	Open To Flow (1)
31	163.69	105.17	Shut-In(1)
75	880.04	109.21	End Shut-In(1)
76	182.52	109.07	Open To Flow (2)
105	255.45	110.17	Shut-In(2)
165	865.57	111.96	End Shut-In(2)
167	1601.67	112.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	201 feet of gas in pipe/100% gas	0.00
248.00	Oil cut Gassy Mud/Oil 5% Gas 10% Mud	3.48
419.00	Clean gassy Oil/Gas 10% Oil 90%	5.88
0.00	Corrected gravity of oil 40	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Adam Folk

**23-17s-14w Barton,KS**

**Tempero #6-23**

Job Ticket: 60253

**DST#: 3**

Test Start: 2014.08.04 @ 23:08:00

## GENERAL INFORMATION:

Formation: **BKC - Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:30:00  
 Time Test Ended: 05:25:30  
 Interval: **3348.00 ft (KB) To 3399.00 ft (KB) (TVD)**  
 Total Depth: 3399.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Hays/98  
 Reference Elevations: 1915.00 ft (KB)  
 1907.00 ft (CF)  
 KB to GR/CF: 8.00 ft

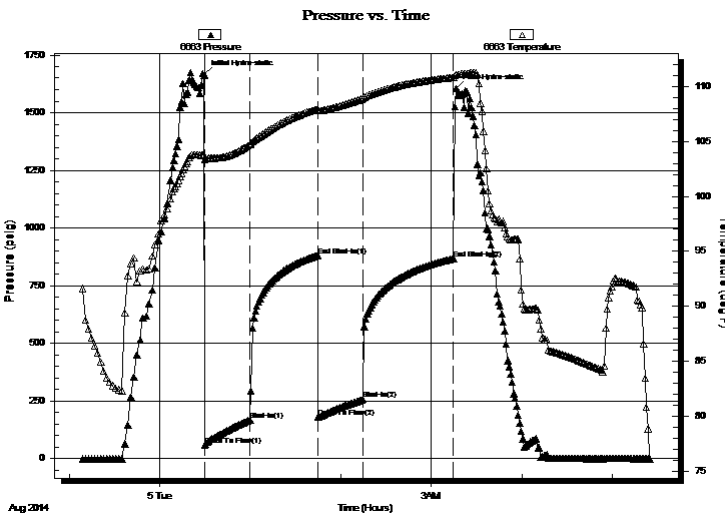
## Serial #: 6663

**Outside**

Press@RunDepth: 867.54 psig @ 3396.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.08.04 End Date: 2014.08.05 Last Calib.: 2014.08.05  
 Start Time: 23:09:00 End Time: 05:25:00 Time On Btm: 2014.08.05 @ 00:29:30  
 Time Off Btm: 2014.08.05 @ 03:16:30

TEST COMMENT: IFP - 30 Good blow /Blow built to bottom of bucket in 3 minutes 45 seconds  
 ISI - 45 Blow back built to 2 1/2 inches  
 FFP - 30 Good blow /Blow built to bottom of bucket in 7 minutes  
 FSI - 60 Blow back built to 1/2 inch

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.63	103.75	Initial Hydro-static
1	59.64	103.36	Open To Flow (1)
31	168.16	104.74	Shut-In(1)
75	881.46	107.95	End Shut-In(1)
76	178.67	107.79	Open To Flow (2)
105	259.06	108.89	Shut-In(2)
165	867.54	110.83	End Shut-In(2)
167	1603.48	111.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	201 feet of gas in pipe/100% gas	0.00
248.00	Oil cut Gassy Mud/Oil 5% Gas 10% Mud	3.48
419.00	Clean gassy Oil/Gas 10% Oil 90%	5.88
0.00	Corrected gravity of oil 40	0.00

## 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: Adam Folk

**23-17s-14w Barton,KS**  
**Tempero #6-23**  
Job Ticket: 60253      **DST#: 3**  
Test Start: 2014.08.04 @ 23:08:00

**Tool Information**

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	28000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	20000.00 lb
Depth to Top Packer:	3348.00 ft			Final	22000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3333.00	
Hydraulic tool	5.00			3338.00	
Top Packer	5.00			3343.00	
Packer	5.00			3348.00	20.00      Bottom Of Top Packer
Anchor	46.00			3394.00	
Recorder	1.00	6749	Inside	3395.00	
Recorder	1.00	6663	Outside	3396.00	
Bullnose	3.00			3399.00	51.00      Anchor Tool

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Adam Folk

**23-17s-14w Barton,KS**  
**Tempero #6-23**  
Job Ticket: 60253      **DST#: 3**  
Test Start: 2014.08.04 @ 23:08:00

## Mud and Cushion Information

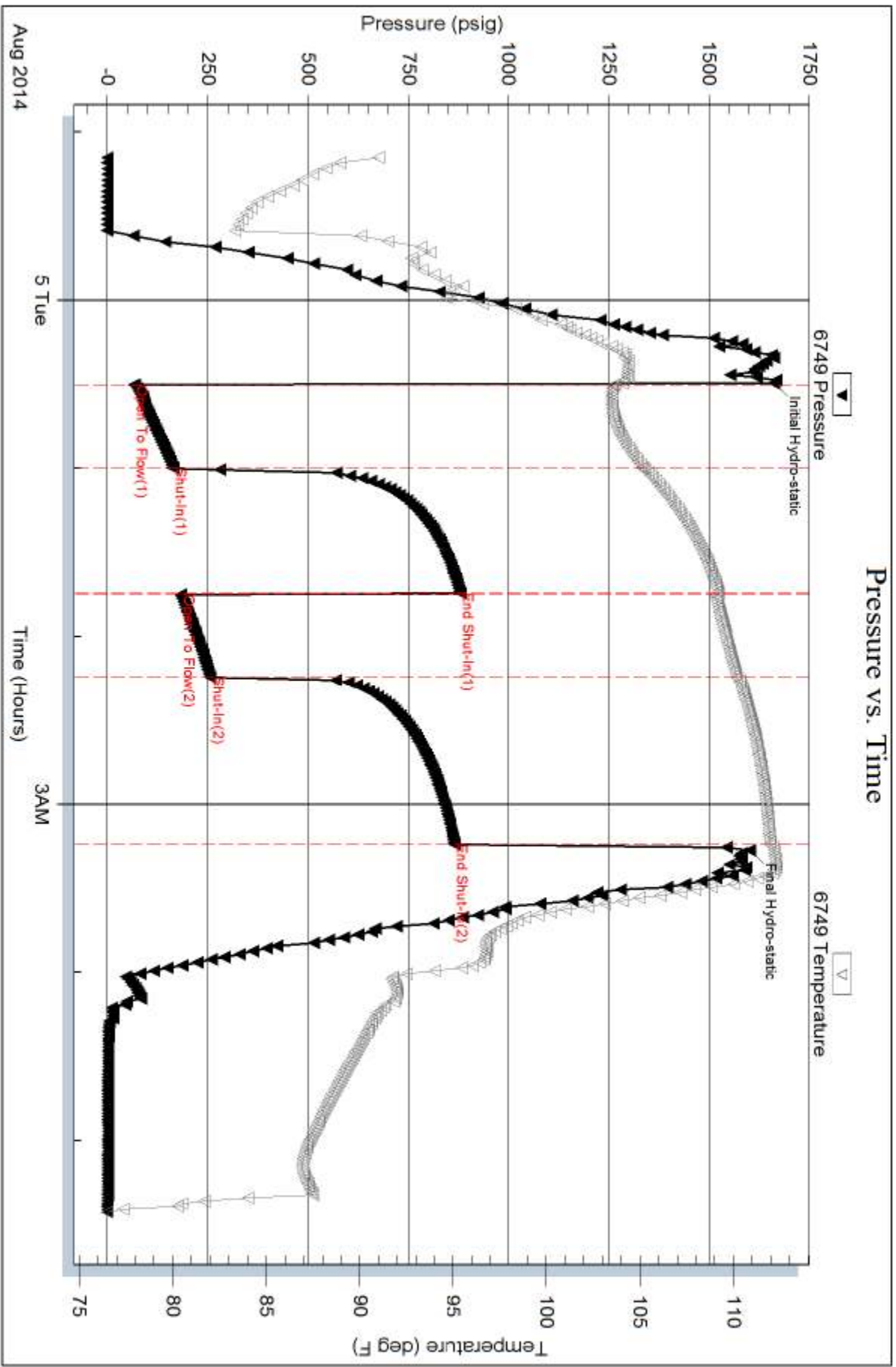
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7700.00 ppm			
Filter Cake: 2.00 inches			

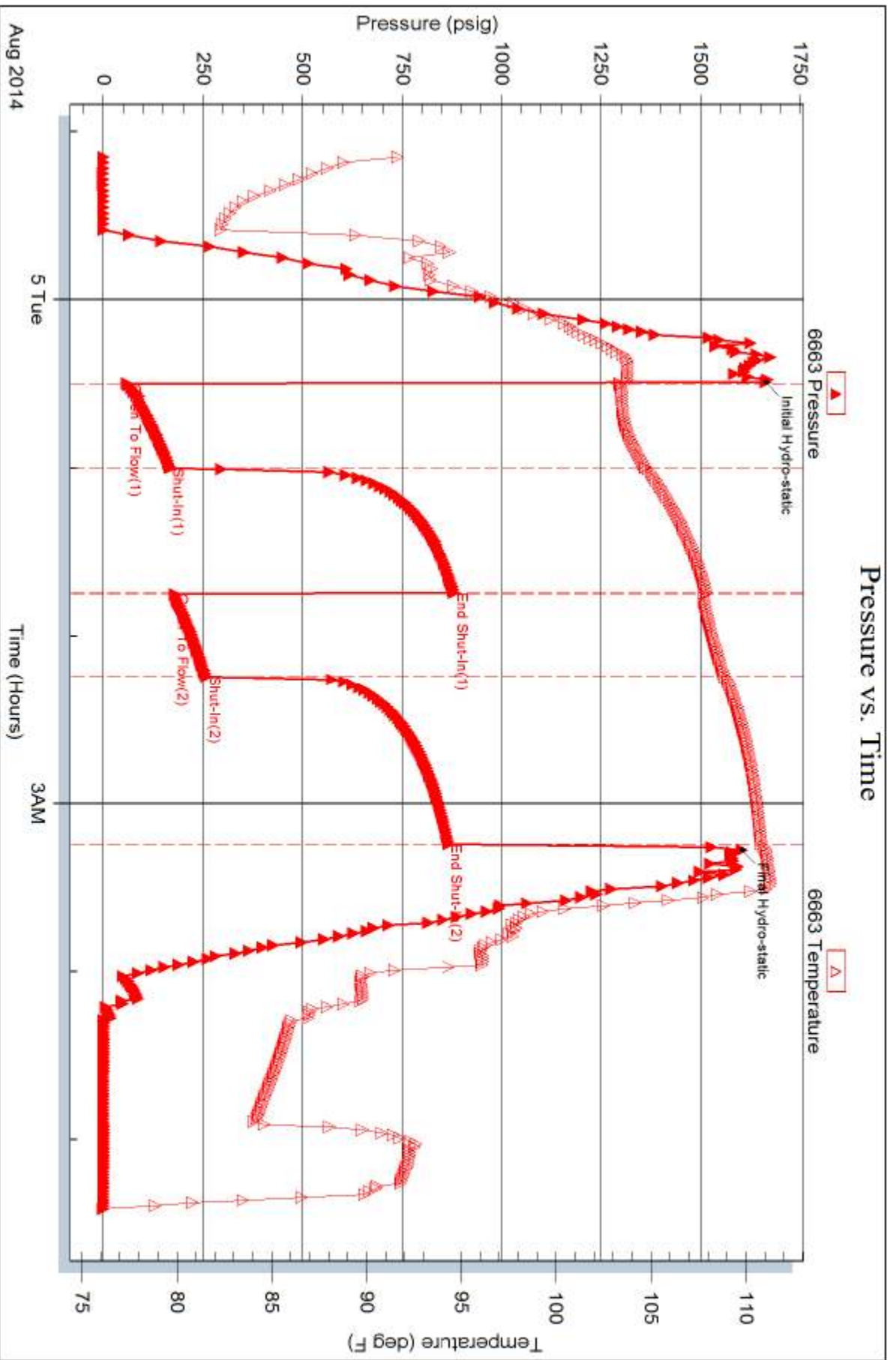
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	201 feet of gas in pipe/100% gas	0.000
248.00	Oil cut Gassy Mud/Oil 5% Gas 10% Mud 85%	3.479
419.00	Clean gassy Oil/Gas 10% Oil 90%	5.877
0.00	Corrected gravity of oil 40	0.000

Total Length: 667.00 ft      Total Volume: 9.356 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

60251

NO.

4/10

Well Name & No. Tempera #6-23 Test No. 1 Date 3 Aug 14  
 Company American Warrior Incorporated Elevation 1915 KB 1907 GL  
 Address 3118 Cummings Rd PO Box 399 Garden City, Kansas 67846  
 Co. Rep / Geo. Adam Folk Rig Duke Drilling Co. Rig #8  
 Location: Sec. 23 Twp. 17S Rge. 14W Co. Barton State KS

Interval Tested 3219-3250 Zone Tested Lansing/Kansas City  
 Anchor Length 31 ft Drill Pipe Run 3222 Mud Wt. 9.1  
 Top Packer Depth 3214 Drill Collars Run -0- Vis 59  
 Bottom Packer Depth 3219 Wt. Pipe Run -0- WL 10.4  
 Total Depth 3250 Chlorides 9000 ppm System LCM 0  
 Blow Description Weak blow/Blow built to 2 1/2 inches  
No blow back on 1st shut in  
Fair blow/Blow built to 10 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>Gas in pipe</u>	<u>100</u>			
<u>10</u>	<u>Muddy Oil</u>		<u>60</u>		<u>40</u>
<u>60</u>	<u>oil cut mud</u>		<u>5</u>		<u>95</u>

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

(A) Initial Hydrostatic \_\_\_\_\_  Test 1150 T-On Location 6:15 am  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 9:15 am  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 11:24 am  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 2:09 pm  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 3:30 pm  
 (F) Second Final Flow \_\_\_\_\_  Mileage 98 151.90 Comments Told 7:00 am  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ on bank, 9:15 am  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_ brake bit  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer 320  
 Extra Copies \_\_\_\_\_  
 Initial Open 30 minutes  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30 minutes  Extra Recorder \_\_\_\_\_  
 Final Flow 45 minutes  Day Standby \_\_\_\_\_  
 Final Shut-In 60 minutes  Accessibility \_\_\_\_\_  
 Sub Total 1301.90 MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

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. 60252

4/10

Well Name & No. Tempero #6-23 Test No. 2 Date 4 Aug 14  
 Company American Warrior Incorporated Elevation 1915 KB 1907 GL  
 Address 3118 Cummings Road PO Box 399 Garden City, Kansas 67846  
 Co. Rep / Geo. Adam Folk Rig Duke Drilling Co. Rig #8  
 Location: Sec. 23 Twp. 17S Rge. 14W Co. Barton State KS

Interval Tested 3279-3330 Zone Tested Lansing/Kansas City zones J+K  
 Anchor Length 51 Drill Pipe Run 3286 Mud Wt. 9.1  
 Top Packer Depth 3274 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 3279 Wt. Pipe Run 0 WL 10.4  
 Total Depth 3330 Chlorides 9000 ppm System LCM 0

Blow Description Weak blow/Flow built to 1/2 inch on 1st Flow  
No blow back on 1st shut in  
Very weak blow/Flow built to 1/4 inch on 2nd Flow  
No blow back on 2nd shut in

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud with show of oil</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 30 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1626  Test 1150 T-On Location 4:15 am  
 (B) First Initial Flow 36  Jars \_\_\_\_\_ T-Started 4:37 am  
 (C) First Final Flow 44  Safety Joint \_\_\_\_\_ T-Open 6:03 am  
 (D) Initial Shut-In 489  Circ Sub \_\_\_\_\_ T-Pulled 8:18 am  
 (E) Second Initial Flow 46  Hourly Standby \_\_\_\_\_ T-Out 9:20 am  
 (F) Second Final Flow 49  Mileage 98 151.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 506  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1581  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30 minutes  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30 minutes  Day Standby \_\_\_\_\_ Total 1301.90  
 Final Flow 30 minutes  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 minutes  Sub Total 1301.90

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. 60253

Well Name & No. Temporo #6-23 Test No. 3 Date 5 Aug 14  
 Company American Warrior Incorporated Elevation 1915 KB 1907 GL  
 Address 3118 Cummings Road PO Box 399 Garden City Kansas 67846  
 Co. Rep / Geo. Adam Folk Rig Duke Drilling Rig #8  
 Location: Sec. 23 Twp. 17S Rge. 14W Co. Barton State KS

Interval Tested 3348 - 3399 Zone Tested Base KC/Arbuckle  
 Anchor Length 51 Drill Pipe Run 3348 Mud Wt. 9.1  
 Top Packer Depth 3394 Drill Collars Run 0 Vis 46  
 Bottom Packer Depth 3399 Wt. Pipe Run 0 WL 10.2  
 Total Depth 3399 Chlorides 7,700 ppm System LCM 0  
 Blow Description Good blow/Blow built to bottom of bucket in 3 minutes 45 seconds  
Blow back built to 7 1/2 inches  
Good blow/Blow built to bottom of bucket in 7 minutes  
Blow back built to 1/2 inch

Rec	Feet of	%gas	%oil	%water	%mud
<u>207</u>	<u>Gas in pipe</u>	<u>100</u>			
<u>248</u>	<u>Oil cut Gassy Mud</u>	<u>10</u>	<u>5</u>	<u>85</u>	
<u>419</u>	<u>Clean Gassy Oil</u>	<u>10</u>	<u>90</u>		

Rec Total 667 BHT \_\_\_\_\_ Gravity 40 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1661  Test 1150 T-On Location 11:00 pm  
 (B) First Initial Flow 65  Jars \_\_\_\_\_ T-Started 11:08 pm  
 (C) First Final Flow 163  Safety Joint \_\_\_\_\_ T-Open 12:30 am  
 (D) Initial Shut-In 880  Circ Sub \_\_\_\_\_ T-Pulled 3:15 am  
 (E) Second Initial Flow 182  Hourly Standby \_\_\_\_\_ T-Out 5:00 am  
 (F) Second Final Flow 255  Mileage 98 151.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 865  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1601  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1301.90  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1301.90

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

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American Warrior Inc.  
Tempero #6-23  
SE-NW-SW-SE (967' FSL & 2239' FEL)  
Section 23-17s-14w  
Barton County, Kansas

Page 1

5 1/2" Production Casing Set

**Contractor:** Duke Drilling Co. (rig #8)  
**Commenced:** July 28, 2014  
**Completed:** August 5, 2014  
**Elevation:** 1915' K.B., 1913' D.F., 1907' G.L.  
**Casing program:** Surface; 8 5/8" @ 861'  
Production, 5 1/2" @ 3499'  
**Sample:** Samples saved and examined 2800' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2800 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were three (3) Drill Stem Tests ran by Triobite Testing Co.  
**Electric Log:** By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	885	+1030
Base Anhydrite	896	+1019
Heebner	3080	-1165
Toronto	3093	-1178
Douglas	3104	-1189
Brown Lime	3154	-1239
Lansing	3163	-1248
Base Kansas City	3364	-1449
Arbuckle	3388	-1473
Rotary Total Depth	3501	-1586
Log Total Depth	3500	-1585

(All tops and zones corrected to Electric Log Measurement)

American Warrior Inc.  
Tempero #6-23  
SE-NW-SW-SE (967' FSL & 2239' FEL)  
Section 23-17s-14w  
Barton County, Kansas

Page 2

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TOPEKA SECTION**

3000-3012'	Limestone, white, gray, finely crystalline, fossiliferous, trace brown stain, no free oil and no odor in fresh samples.
3025-3040'	Limestone, gray, white, finely crystalline, few fossiliferous, trace poor brown stain, no free oil and no odor in fresh samples.

**TORONTO SECTION**

3095-3105'	Limestone, gray, white, finely crystalline, few fossiliferous, poor visible porosity, trace poor light brown stain, no free oil and no odor in fresh samples.
------------	---

**LANSING SECTION**

3063-3076'	Limestone, cream, gray, highly oolitic/fossiliferous, chalky, poor to fair inter-crystalline porosity, trace brown stain, no show of free oil and no odor in fresh samples.
3185-3197'	Limestone, gray, finely crystalline, fossiliferous/oolitic, chalky, poor porosity, trace spotty brown stain, no free oil and no odor in fresh samples.
3208-3216'	Limestone, cream, light gray, white, finely oolitic, chalky, poor inter-crystalline porosity, trace stain, no free oil plus white boney chert.
3223-3227'	Limestone, cream, tan, fine to medium crystalline, oolitic, poorly developed porosity, trace brown stain, trace of free oil and faint odor in fresh samples.
3233-3241'	Limestone, cream, tan, finely crystalline, oolitic, oomoldic, fair to good oomoldic porosity, light to golden brown stain, show of free oil an fair to good odor.

American Warrior Inc.  
Tempero #6-23  
SE-NW-SW-SE (967' FSL & 2239' FEL)  
Section 23-17s-14w  
Barton County, Kansas

Page 3

Drill Stem Test #1 3219-3250

**Times:** 30-30-45-60

**Blow:** Weak

**Recovery:** 110' gas in pipe  
60' muddy oil  
(60% oil; 40% mud)  
60' very slightly oil cut mud  
(5% oil; 95% mud)

**Pressures:** ISIP 451 psi  
FSIP 406 psi  
IFP 26-41 psi  
FFP 47-58 psi  
HSH 1585-1539 psi

3240-3254' Limestone, cream, tan, oolitic, oomoldic, scattered porosity, trace golden brown stain; no free oil and no odor.

3295-3302' Limestone, cream, finely crystalline, oolitic, oomoldic, fair oomoldic porosity, golden brown to dark brown stain, show of free oil and fair odor in fresh samples.

3311-3322' Limestone, tan, cream, finely crystalline, oolitic, oomoldic, poorly developed porosity, brown to black stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #2 3279-3330

**Times:** 30-30-30-45

**Blow:** Weak

**Recovery:** 30' mud

**Pressures:** ISIP 489 psi  
FSIP 506 psi  
IFP 36-44 psi  
FFP 46-50 psi  
HSH 1627-1582 psi

3330-3340' Limestone, cream, tan, finely crystalline, oolitic; poorly developed porosity, spotty stain, no free oil and no odor in fresh samples.

3348-3360' Limestone, white, cream, finely crystalline, highly oolitic, fossiliferous, chalky, trace spotty stain, trace of free oil and faint odor in fresh samples.

American Warrior Inc.  
Tempero #6-23  
SE-NW-SW-SE (967' FSL & 2239' FEL)  
Section 23-17s-14w  
Barton County, Kansas

Page 4

ARBUCKLE SECTION

3388-3399' Dolomite, tan, fine and medium crystalline, fair inter-crystalline porosity, brown stain, show of free oil and good in fresh samples.

Drill Stem Test #3 3348-3399

Times: 30-45-30-60

Blow: Strong

Recovery: 207' gas in pipe  
248' slightly oil and gas cut mud  
(10% gas; 5% oil; 85% mud)  
419' clean gassy oil

Pressures: ISIP 880 psi  
FSIP 865 psi  
IFP 65-163 psi  
FFP 182-255 psi  
HSH 1661-1601 psi

3400-3420' Dolomite, tan, fine and medium crystalline, sucrosic, poor to fair inter-crystalline porosity, brown stain, show of free oil and fair odor in fresh samples.

3420-3440' Dolomite, cream, tan, fine to medium crystalline, poorly developed porosity, cherty in part, trace brown stain, trace of free oil and faint odor.

3440-3460' Dolomite, cream, tan, fine to medium crystalline, sandy in part, scattered dark brown stain, no free oil and no odor in fresh samples.

3460-3480' Dolomite, white, cream, finely crystalline, poor visible porosity, no shows, plus white, gray boney chert.

3480-3501' Dolomite and chert as above.

Rotary Total Depth: 3500  
Log Total Depth: 3501

Recommendations:  
5 ½ production casing was set and cemented on the American Warrior Inc., Temporo #6-23.

Respectfully Submitted,



Kurt Talbott and Adam Folk  
Petroleum Geologist

# ALLIED OIL & GAS SERVICES, LLC 063564

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Great Bend KS

DATE <u>07-30-14</u>	SEC <u>23</u>	TWP. <u>17</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION <u>8:00am</u>	JOB START <u>10:00am</u>	JOB FINISH <u>11:00am</u>
LEASE <u>Tempo</u>		WELL # <u>6-23</u>		LOCATION		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke R  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D.  
 CASING SIZE 8 5/8 DEPTH 861-37  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 20 foot  
 PERFS.  
 DISPLACEMENT 52.25 H2O

OWNER  
 CEMENT  
 AMOUNT ORDERED 475 Class A 3% CC 2% gel

EQUIPMENT  
 PUMP TRUCK CEMENTER Kevin Eddy + Josh Kean  
 # 597 HELPER Brian Lang  
 BULK TRUCK  
 # 609/239 DRIVER Dan Casper  
 BULK TRUCK  
 # DRIVER

COMMON	<u>475</u>	@ <u>17.90</u>	<u>8,502.50</u>
POZMIX		@	
GEL	<u>893</u>	@ <u>.50</u>	<u>446.50</u>
CHLORIDE	<u>1339</u>	@ <u>1.10</u>	<u>1,472.90</u>
ASC		@	
<u>Materials Total</u>			<u>10,421.90</u>
<u>Disc @ 25%</u>			<u>2,605.47</u>
<u>Service</u>			
HANDLING	<u>513.63</u>	@ <u>2.48</u>	<u>1,273.80</u>
MILEAGE	<u>23.44 x 18 x</u>	<u>2.75</u>	<u>1,160.28</u>

**REMARKS:**

On location Rig up Had Safety meeting  
Ran 8 5/8 casing - Break circ  
Pump 5 Fresh H2O  
Mix 475 Class A 3% CC 2% gel  
Drop Plug  
Displace 52.25 Fresh H2O  
Shot in  
Cement did circ  
Rig Down  
Shot in 10:00 am  
 CHARGE TO: American Warrior

DEPTH OF JOB			
PUMP TRUCK CHARGE	<u>2,058.50</u>		
EXTRA FOOTAGE		@	
MILEAGE Hum 18	@ <u>7.70</u>		<u>138.60</u>
MANIFOLD		@	
<u>Hum 18</u>	@ <u>4.40</u>		<u>79.20</u>

STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 4,985.38  
Disc 25% 1,246.35

**PLUG & FLOAT EQUIPMENT**

<u>3 Centralizers</u>	@ <u>75.00</u>	<u>225.00</u>
<u>1 Rubber Plug</u>	@ <u>131.00</u>	<u>131.00</u>
	@	
	@	
	@	

TOTAL 356.00  
Disc 25% 89.00

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) \_\_\_\_\_  
 TOTAL CHARGES 15,763.38  
25% 3,940.82 (25/25/25)  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

\*PRINTED NAME \* Steve H Stephens

SIGNATURE [Signature]  
 THANK YOU !!

11,822.44





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

TICKET 26666

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Hays, Ks  
 2. Ness City, Ks  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_

WELL/PROJECT NO. Le-23  
 LEASE Tempera  
 COUNTY/PARISH Barton  
 STATE Ks.  
 CITY \_\_\_\_\_  
 DATE 8-6  
 OWNER \_\_\_\_\_

TICKET TYPE  SERVICE  SALES  
 CONTRACTOR Duke  
 RIG NAME/NO. #8  
 SHIPPED VIA CT  
 DELIVERED TO Ney/Hoisington, Ks  
 ORDER NO. \_\_\_\_\_

WELL TYPE oil  
 WELL CATEGORY infield  
 JOB PURPOSE Cement Longstring  
 WELL PERMIT NO. \_\_\_\_\_  
 WELL LOCATION \_\_\_\_\_

REFERRAL LOCATION \_\_\_\_\_  
 INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	70		mi		600	42000
578		1			Pump Charge - cut Longstring	1		ea	3499	PL	150000
321		1			Liquid RCL	2		gal		2500	5000
281		1			Mudflush	500		gal		125	62500
290		1			D-Air	2		gal		4200	8400
402		1			Centrifizers	6		ea	5 1/2 in	7000	42000
403		1			Cement Baskets	1		ea	5 1/2 in	30000	30000
406		1			Latch Down Plug & Baffle	1		ea	5 1/2 in	27500	27500
407		1			Insert Float Valve w/ Auto Bell	1		ea	5 1/2 in	37500	37500

**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

X [Signature]  
 DATE SIGNED 8-6-14 TIME SIGNED 1:00:00  A.M.  P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P1	404900
WE UNDERSTOOD AND MET YOUR NEEDS?				P.2	512056
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	916956
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Barton TAX 7.15%	44748
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	961704
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL \_\_\_\_\_

Thank You!





JOB LOG

SWIFT Services, Inc.

DATE 8-16-14 PAGE NO. 1

CUSTOMER Americank *DD10* WELL NO. 6-23 LEASE *Tempera* JOB TYPE *Cement Logging* TICKET NO. *21626*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 3500'	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
8/4	0045					14 5/8	5 1/2		In loc - F.E. - Reg changes over to run casing
8/6	0010								Start 5 1/2" 14#/ft. casing to 3499'
	0010								Insert float shoe w/ Auto fill
									L.D. Baffle - SJ - 25 1/2' = 3473 1/2' = (84 3/4) 881
									Cent. 1-3-5-7-9-11
									Cut Basket #4
									Drop fill up ball 5 fbs out
	0120								Fin casing - Tag
	0130								start cir
									Fin cir
	0215		7 5						Plug RT-30SKS & WH 15SKS
		5	12				250		Mud flush
		5	20				300		Kel flush
									32 Pak
									4 1/2
			35				300		Start cut - 130SKS EA-2
							200		Fin cut.
									Wash out Pump Hines
									Drop L.D. Plug
		9					700		Start Displ
		9	65				450		Caught left press
		8	70				600		slow rate
		7 1/2	80				700		slow rate
		6	84				1200		Last cir press
	0300		85				1700		Plug down - Hold-release & Hold.
							0		Wash up & Pack up Trks
	0330								<i>Thomson</i> Ken, Jon & Jared

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