



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1224855  
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: \_\_\_\_\_



1224855

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	Burkhart 1-15
Doc ID	1224855

Tops

Name	Top	Datum
Anhy	1305'	+866
B/Anhy	1334'	+837
Heebner	3724'	-1553
Lansing	3785'	-1614
B/KC	4150'	-1979
Marm	4155'	-1984
Ft.Scott	4310'	-2139
Cherokee	4334'	-2163
Osage	4375'	-2204



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Burkhart #1-15**

#### **15-22s-21w Hodgeman,KS**

Start Date: 2014.09.15 @ 15:24:00

End Date: 2014.09.15 @ 22:05:30

Job Ticket #: 60270                      DST #: 1

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

Printed: 2014.09.17 @ 10:28:41



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
 Job Ticket: 60270 **DST#: 1**  
 Test Start: 2014.09.15 @ 15:24:00

## GENERAL INFORMATION:

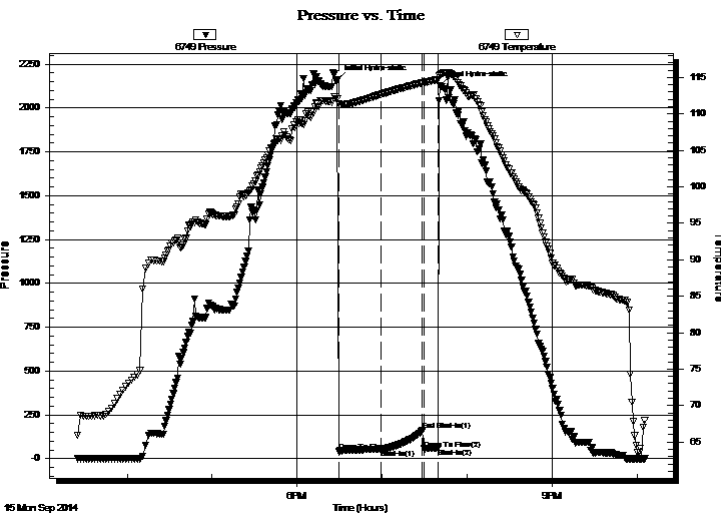
Formation: **Osage**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:29:30  
 Time Test Ended: 22:05:30  
 Interval: **4329.00 ft (KB) To 4384.00 ft (KB) (TVD)**  
 Total Depth: 4384.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1  
 Reference Elevations: 2171.00 ft (KB)  
 2160.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 6749

Inside

Press@RunDepth: 54.86 psig @ 4379.86 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15  
 Start Time: 15:25:00 End Time: 22:05:30 Time On Btm: 2014.09.15 @ 18:28:30  
 Time Off Btm: 2014.09.15 @ 19:41:00

TEST COMMENT: IFP 30 Weak blow built to 1/2"  
 ISI 30 No blow back  
 FFP 10 Weak surface blow - No build - Pull test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.16	112.05	Initial Hydro-static
1	43.70	111.37	Open To Flow (1)
31	54.86	112.68	Shut-In(1)
60	161.25	114.27	End Shut-In(1)
61	56.18	114.28	Open To Flow (2)
71	59.56	114.71	Shut-In(2)
73	2128.71	115.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud with show of oil in tool/Mud 100%	0.07

## 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: Kevin Timson

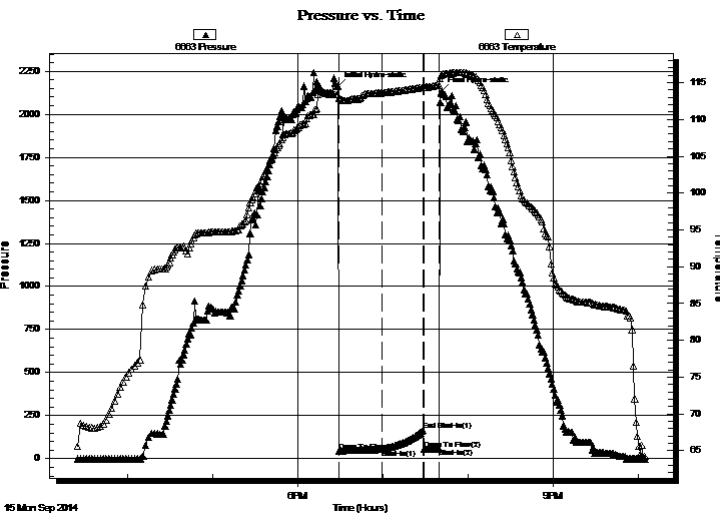
**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60270 **DST#: 1**  
Test Start: 2014.09.15 @ 15:24:00

## GENERAL INFORMATION:

Formation: **Osage**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:29:30  
Time Test Ended: 22:05:30  
Interval: **4329.00 ft (KB) To 4384.00 ft (KB) (TVD)**  
Total Depth: 4384.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: S1  
Reference Elevations: 2171.00 ft (KB)  
2160.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6663 Outside**  
Press@RunDepth: 165.34 psig @ 4380.86 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15  
Start Time: 15:25:00 End Time: 22:05:00 Time On Btm: 2014.09.15 @ 18:28:30  
Time Off Btm: 2014.09.15 @ 19:41:00

TEST COMMENT: IFP 30 Weak blow built to 1/2"  
ISI 30 No blow back  
FFP 10 Weak surface blow - No build - Pull test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.27	113.40	Initial Hydro-static
1	44.90	112.83	Open To Flow (1)
31	54.76	113.61	Shut-In(1)
60	165.34	114.38	End Shut-In(1)
61	56.12	114.35	Open To Flow (2)
71	58.40	114.65	Shut-In(2)
73	2129.59	115.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w ith show of oil in tool/Mud 100%	0.07

## 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: Kevin Timson

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60270 **DST#: 1**  
Test Start: 2014.09.15 @ 15:24:00

## Tool Information

Drill Pipe:	Length: 4085.00 ft	Diameter: 3.80 inches	Volume: 57.30 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: 247.22 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 58.52 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.22 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4329.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.86 ft			
Tool Length:	82.86 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4306.00	
Hydraulic tool	5.00			4311.00	
Jars	6.00			4317.00	
Safety Joint	2.00			4319.00	
Top Packer	5.00			4324.00	
Packer	5.00			4329.00	28.00 Bottom Of Top Packer
Anchor	3.00			4332.00	
Change Over Sub	0.75			4332.75	
Drill Pipe	30.36			4363.11	
Change Over Sub	0.75			4363.86	
Anchor	15.00			4378.86	
Recorder	1.00	6749	Inside	4379.86	
Recorder	1.00	6663	Outside	4380.86	
Bullnose	3.00			4383.86	54.86 Anchor Tool

**Total Tool Length: 82.86**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60270      **DST#: 1**  
Test Start: 2014.09.15 @ 15:24:00

## 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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud with show of oil in tool/Mud 100%	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



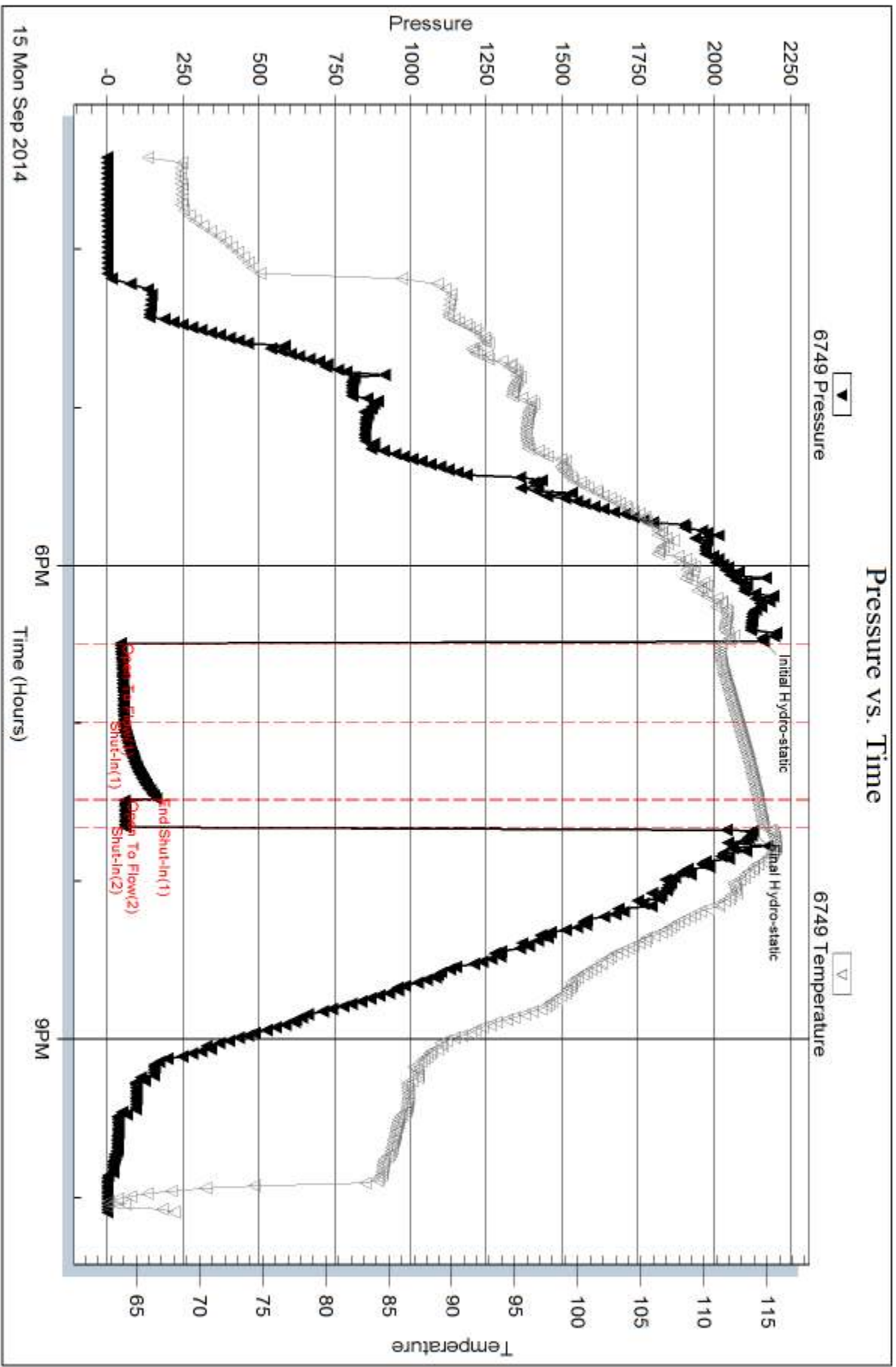
Serial #: 6749

Inside

American Warrior Inc

Burkhart #1-15

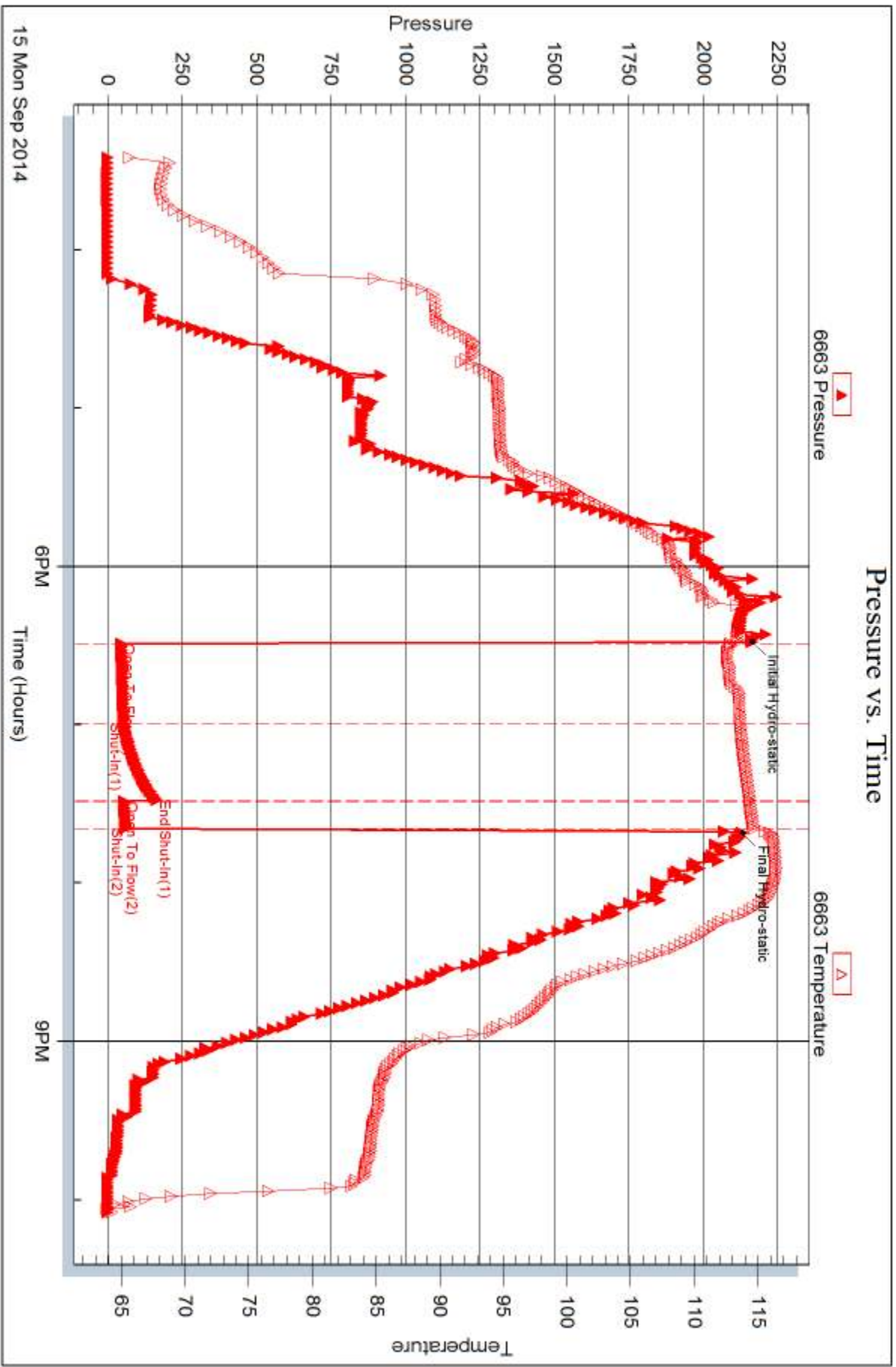
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 602270

Printed: 2014.09.17 @ 10:28:42





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Burkhart #1-15**

#### **15-22s-21w Hodgeman,KS**

Start Date: 2014.09.16 @ 05:27:00

End Date: 2014.09.16 @ 11:22:30

Job Ticket #: 60271                      DST #: 2

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

Printed: 2014.09.17 @ 10:28:08



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
 Job Ticket: 60271 **DST#: 2**  
 Test Start: 2014.09.16 @ 05:27:00

## GENERAL INFORMATION:

Formation: **Osage**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 07:18:30 Tester: Ken Swinney  
 Time Test Ended: 11:22:30 Unit No: S1  
 Interval: **4384.00 ft (KB) To 4395.00 ft (KB) (TVD)** Reference Elevations: 2171.00 ft (KB)  
 Total Depth: 4395.00 ft (KB) (TVD) 2160.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

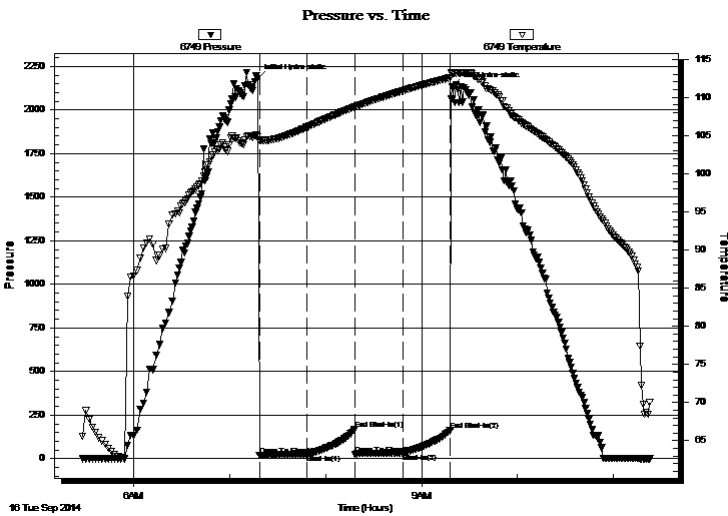
## Serial #: 6749

Inside

Press@RunDepth: 33.32 psig @ 4391.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.09.16 End Date: 2014.09.16 Last Calib.: 2014.09.16  
 Start Time: 05:28:00 End Time: 11:22:30 Time On Btm: 2014.09.16 @ 07:17:30  
 Time Off Btm: 2014.09.16 @ 09:19:00

TEST COMMENT: IFP 30 Weak blow built to 1"  
 ISI 30 No blow back  
 FFP 30 Weak blow built to 2"  
 FSI 30 No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.14	104.80	Initial Hydro-static
1	19.47	104.35	Open To Flow (1)
31	27.55	106.07	Shut-In(1)
61	167.17	108.76	End Shut-In(1)
61	26.53	108.77	Open To Flow (2)
91	33.32	110.86	Shut-In(2)
121	163.45	112.58	End Shut-In(2)
122	2136.23	113.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Lightly oil cut mud	0.00
0.00	Oil 10% Mud 90%	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: Kevin Timson

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60271 **DST#: 2**  
Test Start: 2014.09.16 @ 05:27:00

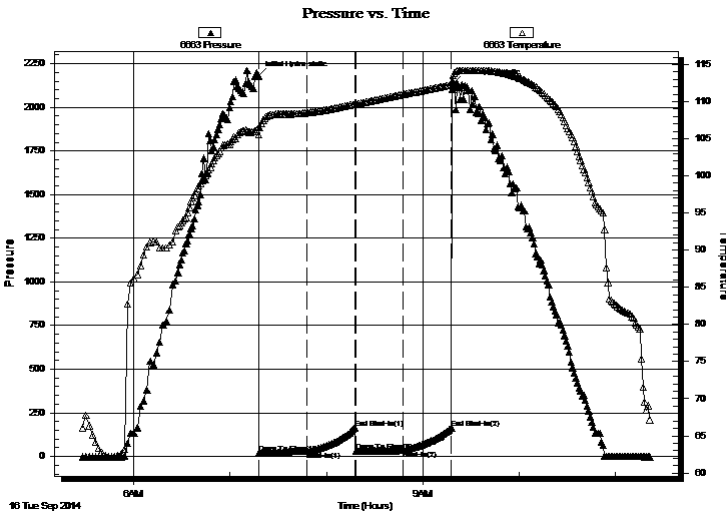
## GENERAL INFORMATION:

Formation: **Osage**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:18:30  
Time Test Ended: 11:22:30  
Interval: **4384.00 ft (KB) To 4395.00 ft (KB) (TVD)**  
Total Depth: 4395.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: S1  
Reference Elevations: 2171.00 ft (KB)  
2160.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6663 Outside**  
Press@RunDepth: 164.81 psig @ 4392.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.09.16 End Date: 2014.09.16 Last Calib.: 2014.09.16  
Start Time: 05:28:00 End Time: 11:22:00 Time On Btm: 2014.09.16 @ 07:17:30  
Time Off Btm: 2014.09.16 @ 09:19:00

TEST COMMENT: IFP 30 Weak blow built to 1"  
ISI 30 No blow back  
FFP 30 Weak blow built to 2"  
FSI 30 No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.18	106.52	Initial Hydro-static
1	20.88	105.51	Open To Flow (1)
31	29.17	108.50	Shut-In(1)
60	164.21	109.66	End Shut-In(1)
61	28.94	109.66	Open To Flow (2)
91	34.66	110.98	Shut-In(2)
121	164.81	112.26	End Shut-In(2)
122	2133.86	113.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Lightly oil cut mud	0.00
0.00	Oil 10% Mud 90%	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: Kevin Timson

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60271      **DST#: 2**  
Test Start: 2014.09.16 @ 05:27:00

**Tool Information**

Drill Pipe:	Length: 4117.00 ft	Diameter: 3.80 inches	Volume: 57.75 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: 247.22 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 57.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.22 ft			String Weight: Initial	71000.00 lb
Depth to Top Packer:	4384.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	38.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			4362.00	
Hydraulic tool	5.00			4367.00	
Jars	5.00			4372.00	
Safety Joint	2.00			4374.00	
Top Packer	5.00			4379.00	
Packer	5.00			4384.00	27.00      Bottom Of Top Packer
Anchor	6.00			4390.00	
Recorder	1.00	6749	Inside	4391.00	
Recorder	1.00	6663	Outside	4392.00	
Bullnose	3.00			4395.00	11.00      Anchor Tool
<b>Total Tool Length:</b>	<b>38.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60271      **DST#: 2**  
Test Start: 2014.09.16 @ 05:27:00

## Mud and Cushion Information

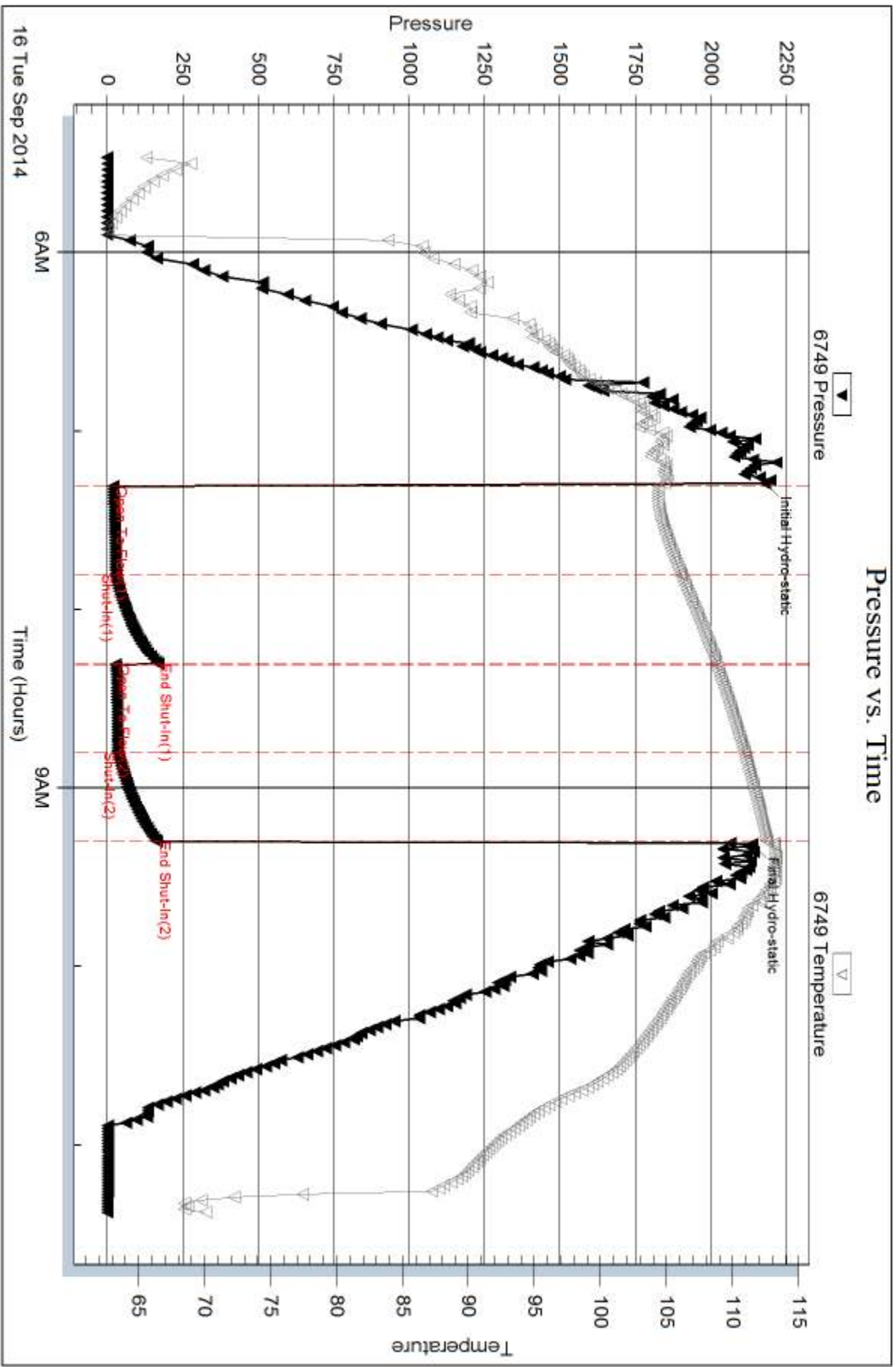
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

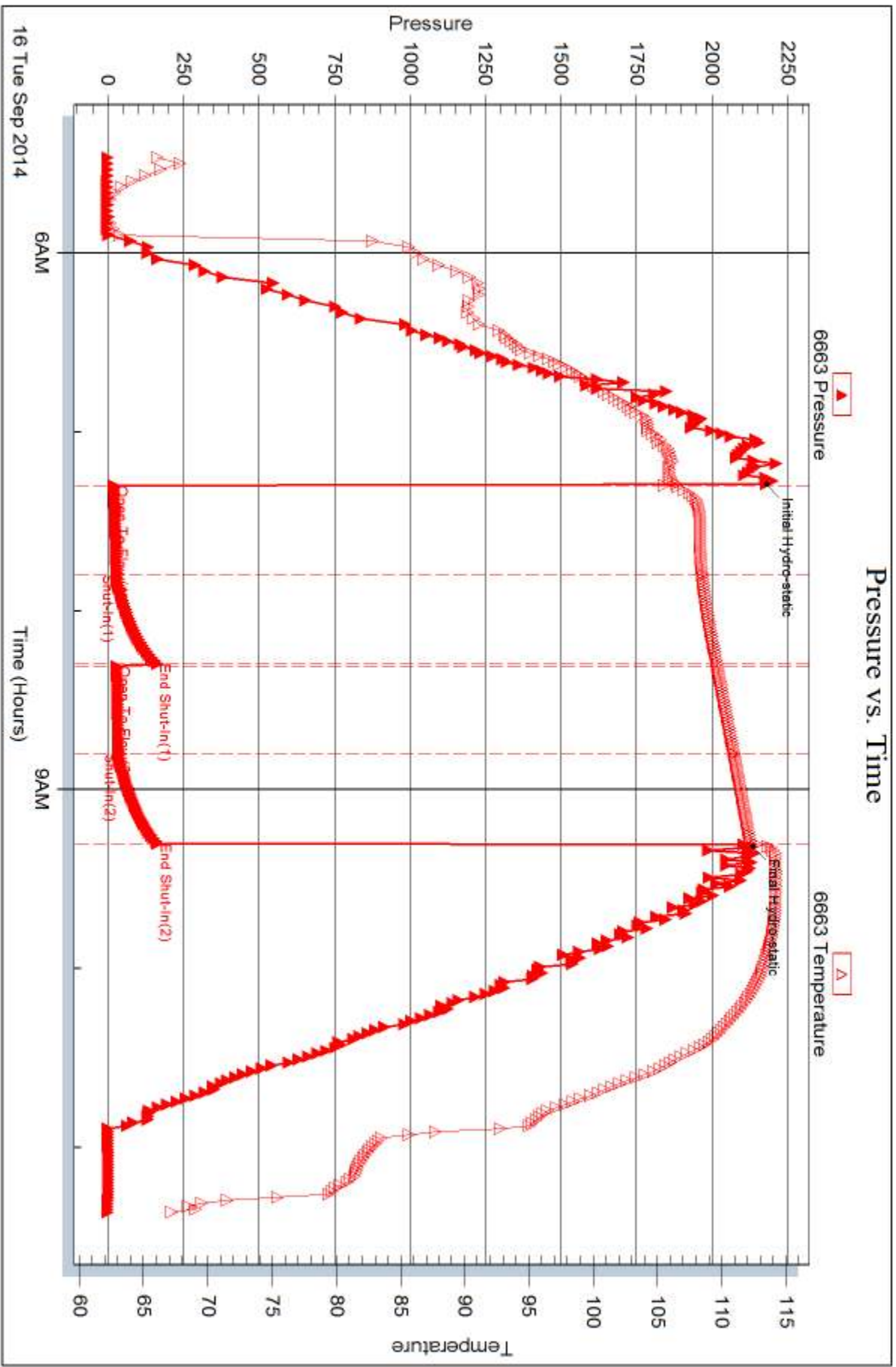
Recovery Table

Length ft	Description	Volume bbl
30.00	Lightly oil cut mud	0.000
0.00	Oil 10% Mud 90%	0.000

Total Length: 30.00 ft      Total Volume: 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: Kevin Timson

### **Burkhart #1-15**

#### **15-22s-21w Hodgeman,KS**

Start Date: 2014.09.16 @ 18:41:00

End Date: 2014.09.17 @ 01:37:00

Job Ticket #: 60272                      DST #: 3

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

Printed: 2014.09.17 @ 10:22:41



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

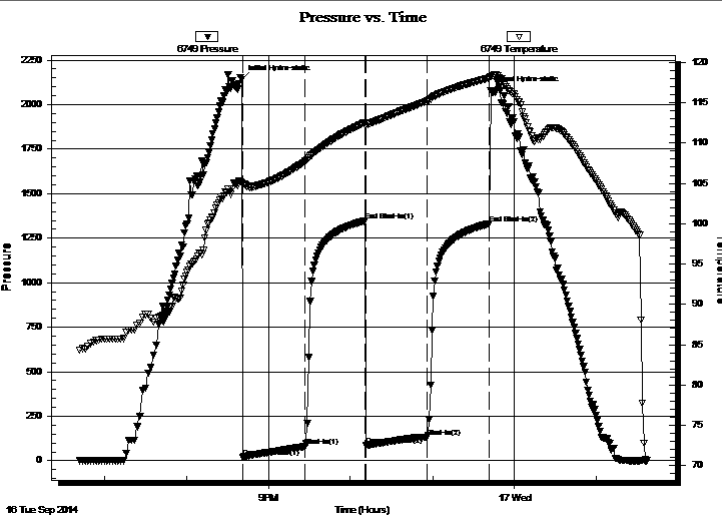
**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
 Job Ticket: 60272 **DST#: 3**  
 Test Start: 2014.09.16 @ 18:41:00

## GENERAL INFORMATION:

Formation: **Osage**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:41:30  
 Time Test Ended: 01:37:00  
 Interval: **4395.00 ft (KB) To 4406.00 ft (KB) (TVD)**  
 Total Depth: 4406.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Great Bend/104  
 Reference Elevations: 2171.00 ft (KB)  
 2160.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 6749 Inside**  
 Press@RunDepth: 132.72 psig @ 4402.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.09.16 End Date: 2014.09.17 Last Calib.: 2014.09.17  
 Start Time: 18:42:00 End Time: 01:37:00 Time On Btm: 2014.09.16 @ 20:40:30  
 Time Off Btm: 2014.09.16 @ 23:42:30

TEST COMMENT: IFP 45 Weak blow built to 4 1/2"  
 ISI 45 No blow back  
 FFP 45 Weak surface blow throughout  
 FSI 45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.02	105.10	Initial Hydro-static
1	19.87	104.82	Open To Flow (1)
47	79.89	107.73	Shut-In(1)
90	1346.30	112.55	End Shut-In(1)
91	86.37	112.32	Open To Flow (2)
136	132.72	115.19	Shut-In(2)
181	1331.29	118.05	End Shut-In(2)
182	2079.76	118.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Muddy Water/Mud 10% Water 90%	1.18

## 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: Kevin Timson

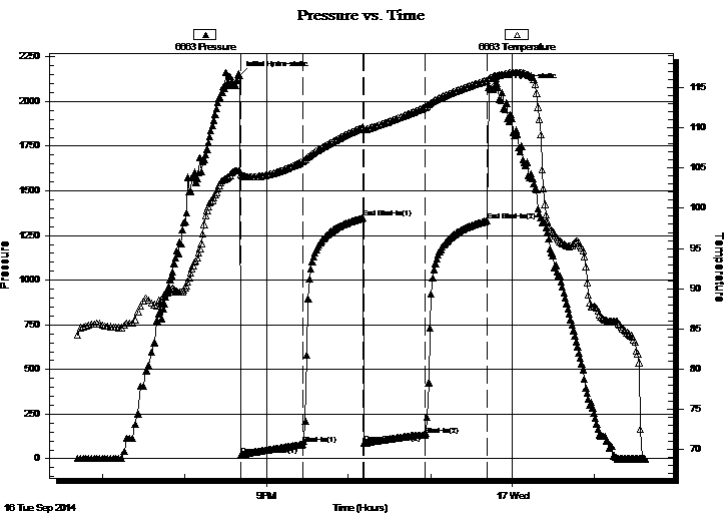
**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60272      **DST#: 3**  
Test Start: 2014.09.16 @ 18:41:00

## GENERAL INFORMATION:

Formation: **Osage**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 20:41:30  
Time Test Ended: 01:37:00  
Interval: **4395.00 ft (KB) To 4406.00 ft (KB) (TVD)**  
Total Depth: 4406.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: S1 Great Bend/104  
Reference Elevations: 2171.00 ft (KB)  
2160.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6663      Outside**  
Press@RunDepth: 1332.22 psig @ 4403.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.09.16      End Date: 2014.09.17      Last Calib.: 2014.09.17  
Start Time: 18:42:00      End Time: 01:37:00      Time On Btm: 2014.09.16 @ 20:40:30  
Time Off Btm: 2014.09.16 @ 23:42:30

TEST COMMENT: IFP 45 Weak blow built to 4 1/2"  
ISI 45 No blow back  
FFP 45 Weak surface blow throughout  
FSI 45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.87	104.70	Initial Hydro-static
1	21.63	104.18	Open To Flow (1)
46	80.50	105.82	Shut-In(1)
90	1347.23	110.08	End Shut-In(1)
91	88.12	109.82	Open To Flow (2)
136	134.02	112.55	Shut-In(2)
181	1332.22	115.89	End Shut-In(2)
182	2080.13	116.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Muddy Water/Mud 10% Water 90%	1.18

## 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: Kevin Timson

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60272      **DST#: 3**  
Test Start: 2014.09.16 @ 18:41:00

**Tool Information**

Drill Pipe:	Length: 4147.00 ft	Diameter: 3.80 inches	Volume: 58.17 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: 247.22 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 59.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.22 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4395.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	38.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			4373.00	
Hydraulic tool	5.00			4378.00	
Jars	5.00			4383.00	
Safety Joint	2.00			4385.00	
Top Packer	5.00			4390.00	
Packer	5.00			4395.00	27.00      Bottom Of Top Packer
Anchor	6.00			4401.00	
Recorder	1.00	6749	Inside	4402.00	
Recorder	1.00	6663	Outside	4403.00	
Bullnose	3.00			4406.00	11.00      Anchor Tool
<b>Total Tool Length:</b>	<b>38.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**15-22s-21w Hodgeman,KS**  
**Burkhart #1-15**  
Job Ticket: 60272      **DST#: 3**  
Test Start: 2014.09.16 @ 18:41:00

## Mud and Cushion Information

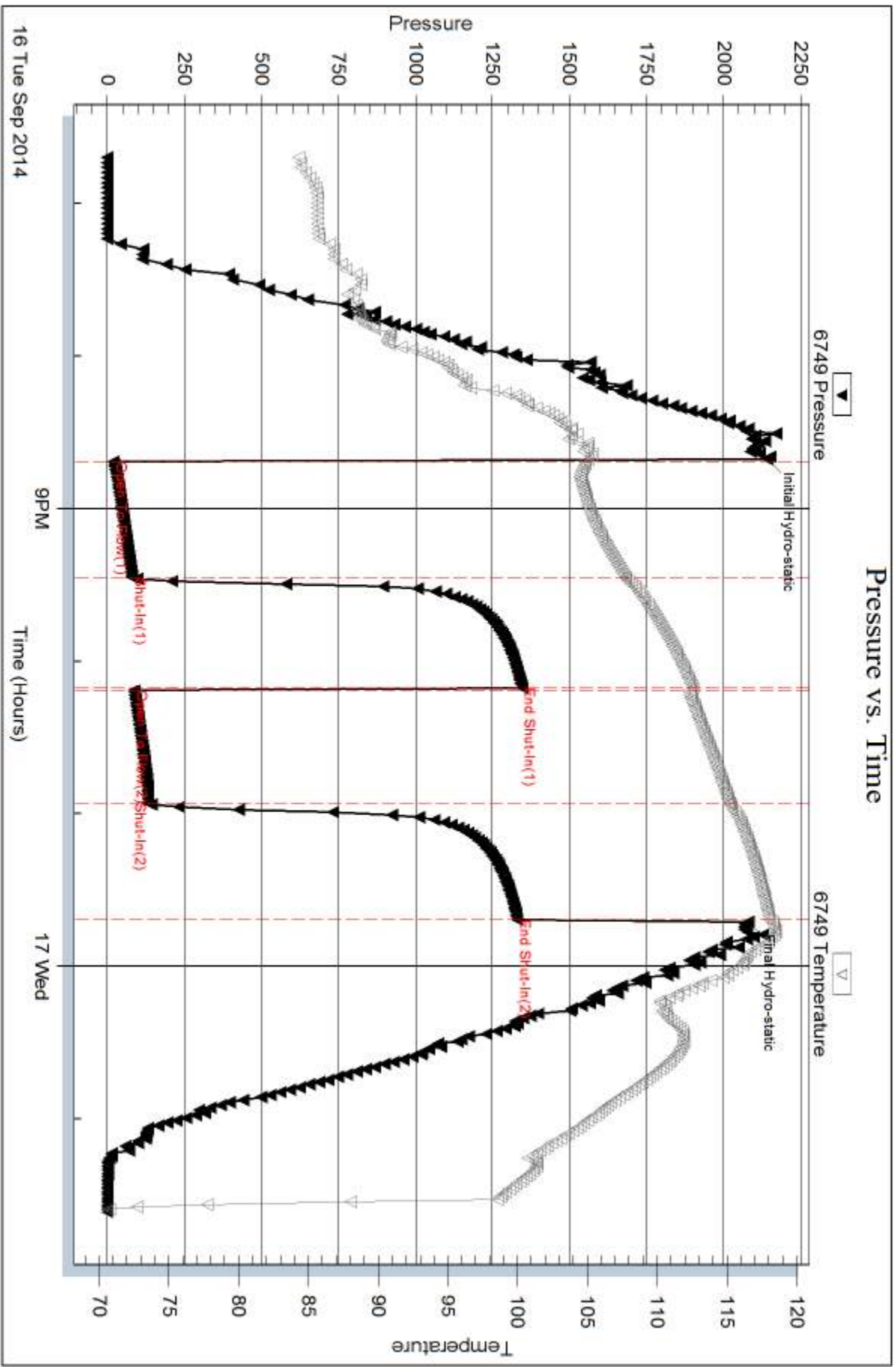
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

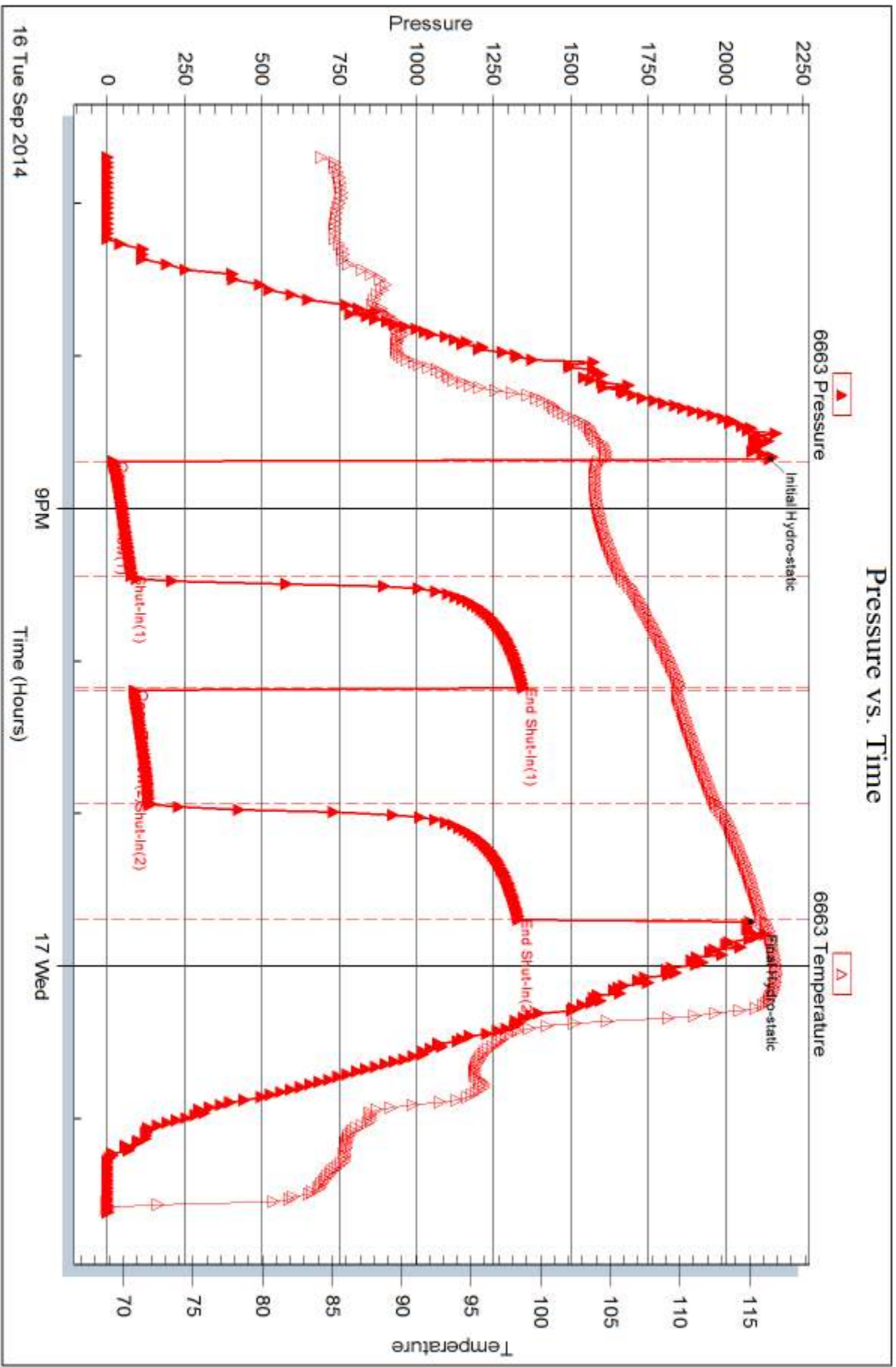
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Muddy Water/Mud 10% Water 90%	1.180

Total Length: 240.00 ft      Total Volume: 1.180 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









# ALLIED OIL & GAS SERVICES, LLC

063982

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Great Bend KS

DATE <u>09-10-14</u>	SEC. <u>15</u>	TWP. <u>22</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION <u>6:30</u>	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Burkhart</u> WELL # <u>1-15</u>		LOCATION <u>HANSTON EAST TO 233 RD 1 south</u>			COUNTY <u>Hodgeman</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>1/4 EAST INTO</u>				

CONTRACTOR Duke S  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D.  
CASING SIZE 8 5/8 28 CBS DEPTH 1082-33  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG.  
PERFS.  
DISPLACEMENT 66.40

OWNER  
CEMENT  
AMOUNT ORDERED SSO SX CLASS A + 3% CC + 2% Gel

EQUIPMENT  
PUMP TRUCK CEMENTER Kevin Addy  
# 597 HELPER MARLYN Spangenberg  
BULK TRUCK  
# 870/844 DRIVER Kevin Weighous  
BULK TRUCK  
# DRIVER

COMMON	<u>550</u>	@	<u>17.90</u>	<u>9.845.00</u>
POZMIX		@		
GEL	<u>1034</u>	@	<u>5.50</u>	<u>517.00</u>
CHLORIDE	<u>1551</u>	@	<u>1.10</u>	<u>1706.10</u>
ASC		@		
<u>Materials Total</u>				<u>12.068.10</u>
<u>Disc</u>				<u>20%</u>
				<u>2.413.62</u>
<u>Service</u>				
				@
HANDLING	<u>594.73</u>	@	<u>2.48</u>	<u>1.474.93</u>
MILEAGE	<u>27.14 X 35 X</u>	@	<u>2.75</u>	<u>2.612.23</u>

REMARKS:

Arrived on location, Had safety meeting  
Rig up casing crew ran 1082-33-28 casing  
Ran float equipment hook to head broke  
circ w/ rig mud pump 5 BBls ahead mix  
SSO SXS CLASS A + 3% CC 2% Gel shut down  
Release Plug Displace 66.40 BBls First 420.00  
pot sand Plug skat in cement did a circ

DEPTH OF JOB	<u>1082-33</u>
PUMP TRUCK CHARGE	<u>2213.25</u>
EXTRA FOOTAGE	@
MILEAGE	<u>num 35 @ 7.70</u> <u>269.20</u>
MANIFOLD	@ <u>275.00</u> <u>275.00</u>
	<u>num 35 @ 4.40</u> <u>154.00</u>
	@

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

TOTAL 6.994.41  
20% 1.399.88

**THANK YOU**

PLUG & FLOAT EQUIPMENT

<u>1 Rubber Plug</u>	<u>131.00</u>	<u>131.00</u>
<u>1 AFW insert</u>	@ <u>530.00</u>	<u>530.00</u>
<u>3 Centralizers</u>	@ <u>75.00</u>	<u>225.00</u>
<u>1 Basket</u>	@ <u>560.00</u>	<u>560.00</u>
	@	
	@	

TOTAL 1446.00  
20% 289.20

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 20.513.51  
20% 4.102.70 (20/20/20)  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
16.410.81

PRINTED NAME KENNETH MCGUIRE  
SIGNATURE Kenneth McGuire

# **Geological Report**

American Warrior, Inc.

## **Burkhart #1-15**

508' FNL & 1163' FWL

Sec 15, T22s, R21w

Hodgeman County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Burkhart #1-15  
508' FNL & 1163' FWL  
Sec 15, T22s, R21w  
Hodgeman County, Kansas  
API # 15-083-21908-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: September 9, 2014  
Completion Date: September 17, 2014

Elevation 2160' G.L.  
2171' K.B.

Directions: From Hanston, KS go 5 miles East on Highway 156 to 233 road. Then South 2.5 Miles, East 0.5 miles and then SW into location.

Casing: 1071' 8 5/8" #28 Surface Casing

Samples: 3700' to RTD 10' Wet & Dry

Drilling Time: 3650' to RTD

Electric Logs: No Logs

Drillstem Tests: 3 -Trilobite Testing "Ken Swinney"

Problems: No problems encountered

**Formation Tops**  
**Burkhart #1-15**  
**Sec. 15, T21s, R22w**  
**508' FNL & 1163' FWL**

<b>Anhydrite</b>	<b>1305' +866</b>
<b>Base</b>	<b>1334' +837</b>
<b>Heebner</b>	<b>3724' -1553</b>
<b>Douglas</b>	<b>3750' -1579</b>
<b>Lansing</b>	<b>3785' -1614</b>
<b>Stark</b>	<b>4084' -1877</b>
<b>BKC</b>	<b>4150' -1979</b>
<b>Marmaton</b>	<b>4155' -1984</b>
<b>Pawnee</b>	<b>4227' -2056</b>
<b>Fort Scott</b>	<b>4310' -2139</b>
<b>Cherokee</b>	<b>4334' -2163</b>
<b>Osage</b>	<b>4375' -2204</b>
<b>RTD</b>	<b>4406' -2235</b>
<b>LTD</b>	<b>N/A</b>

**Sample Zone Descriptions**

- Osage (4375', -2204): Covered in DST #1**  
Dolomite, tan/gray, subxln, fair vuggy porosity, slight show of free oil.  
Tripartitic Chert, white/yellow, occasional pyrite, conchoidal fracture.
- Osage (4384', -2213): Covered in DST #2**  
Dolomite, white/brown, occasional sucrosic, fair interxln porosity, slight odor, fair show of free oil.  
Tripartitic Chert, white/pink/yellow, conchoidal fracture, occasional pyrite.
- Osage (4395', -2224): Covered in DST #3**  
Dolomite, white, occasional sucrosic, poor interxln porosity, occasional poor vuggy porosity, slightly cherty, occasional glauconite, very slight odor, poor show of free oil

## Drill Stem Tests

Trilobite Testing

“Ken Swinney”

### DST #1

#### Osage

Interval (4329' - 4384') Anchor Length 55'

IHP - 2161 #

IFP - 30" – WSB built to ½" 43-54 #

ISI - 30" – no return 161 #

FFP - 10" – WSB no build 56-59 #

FSIP - Pull Test N/A

FHP - 2128 #

BHT - 115° F

Recovery: 15' Mud with show of oil in tool

### DST #2

#### Osage

Interval (4384' – 4395') Anchor Length 11'

IHP - 2179 #

IFP - 30" – WSB built to 1" 19-27 #

ISI - 30" – No return 167 #

FFP - 30" – WSB built to 2" 26-33 #

FSIP - 30" - No return 163 #

FHP - 2136 #

BHT - 113° F

Recovery: 30' Oil cut mud 10% oil, 90% mud

### DST #3

#### Osage

Interval (4395' – 4406') Anchor Length 11'

IHP - 2143 #

IFP - 45" – WB built to 4 ½" 20-80 #

ISI - 45" – No return 1347 #

FFP - 45" – WSB did not build 12-13 #

FSIP - 45" – No return 1332 #

FHP - 2080 #

BHT - 118° F

Recovery: 240' Muddy Water 10% mud, 90% water

## Structural Comparison

	American Warrior, Inc. Burkhart #1-15 Sec. 15, T22s, R21w 508' FNL & 1163' FWL		Murfin Drilling Co. Norris No. 1 Sec. 10, T22s, R21w C-SE-SW		Pickrell Drilling Co. No. 1 Mooney "D" Sec. 21, T22s, R21w C-SW-NW
<b>Formation</b>					
Heebner	3724' -1553	+12	3724' -1565	-8	3732' -1545
Douglas	3750' -1579	+12	3760' -1601	-6	3760' -1573
Lansing	3785' -1614	+13	3786' -1627	-5	3796' -1609
Stark	4084' -1877	+8	4044' -1885	-10	4054' -1867
BKC	4150' -1979	+7	4145' -1986	-16	4150' -1963
Marmaton	4155' -1984	+7	4150' -1991	-13	4158' -1971
Pawnee	4227' -2056	+10	4225' -2066	+2	4245' -2058
Fort Scott	4310' -2139	+11	4309' -2150	-7	4318' -2131
Cherokee	4334' -2163	+11	4333' -2174	-8	4342' -2155
Osage	4375' -2204	+12	4375' -2216	-4	4387' -2200

### Summary

The location for the Burkhart #1-15 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to plug and abandon the Burkhart #1-15 well.

Respectfully Submitted,

Luke Thompson  
American Warrior, Inc.