

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1264550  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1264550



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			
Geologist Report / Mud Logs	<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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Ward 1-19
Doc ID	1264550

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Ward 1-19
Doc ID	1264550

Tops

Name	Top	Datum
Anhy	2304	+631
B/Anhy	2324	+611
Heebner	3684	-749
Lansing	3728	-793
Stark	3981	-1046
B/KC	4055	-1120
Matmaton	4101	-1166
Pawnee	4189	-1254
Ft.Scott	4248	-1313
Cherokee	4278	-1343
Morrow	4399	-1464





## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Ward #1-19**

### **19-13s-35w Logan,KS**

Start Date: 2015.07.26 @ 06:55:00

End Date: 2015.07.26 @ 14:25:15

Job Ticket #: 61851                      DST #: 1

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

Printed: 2015.07.30 @ 10:53:31



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**19-13s-35w Logan,KS**  
**Ward #1-19**  
Job Ticket: 61851 **DST#: 1**  
Test Start: 2015.07.26 @ 06:55:00

## GENERAL INFORMATION:

Formation: **LKC "C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:20:30  
Time Test Ended: 14:25:15  
Interval: **3750.00 ft (KB) To 3793.00 ft (KB) (TVD)**  
Total Depth: 3793.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Justin Harris  
Unit No: 71  
Reference Elevations: 2935.00 ft (KB)  
2924.00 ft (CF)  
KB to GR/CF: 11.00 ft

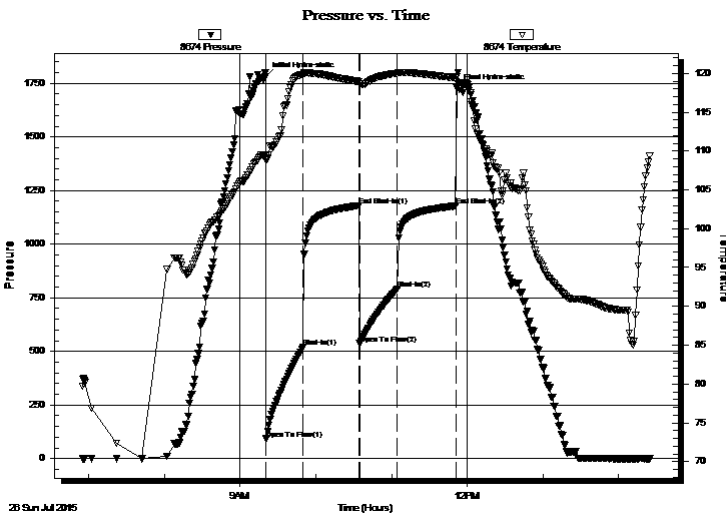
## Serial #: 8674

Inside

Press@RunDepth: 791.74 psig @ 3751.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.07.26 End Date: 2015.07.26 Last Calib.: 2015.07.26  
Start Time: 06:55:05 End Time: 14:25:14 Time On Btm: 2015.07.26 @ 09:20:00  
Time Off Btm: 2015.07.26 @ 11:51:45

TEST COMMENT: 30: B.O.B in 2 mins  
45: NO Return.  
30: B.O.B in 2 mins.  
45: NO Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.18	109.39	Initial Hydro-static
1	92.58	108.87	Open To Flow (1)
30	518.43	119.86	Shut-In(1)
75	1179.94	118.92	End Shut-In(1)
75	535.87	118.70	Open To Flow (2)
105	791.74	120.00	Shut-In(2)
151	1178.55	119.43	End Shut-In(2)
152	1727.41	119.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	mcw 5m 95w	0.15
1071.00	mcw 10m 90w	15.02
630.00	omcw 5o 40m 55w	8.84

## 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

**19-13s-35w Logan, KS**  
**Ward #1-19**  
 Job Ticket: 61851                  **DST#: 1**  
 Test Start: 2015.07.26 @ 06:55:00

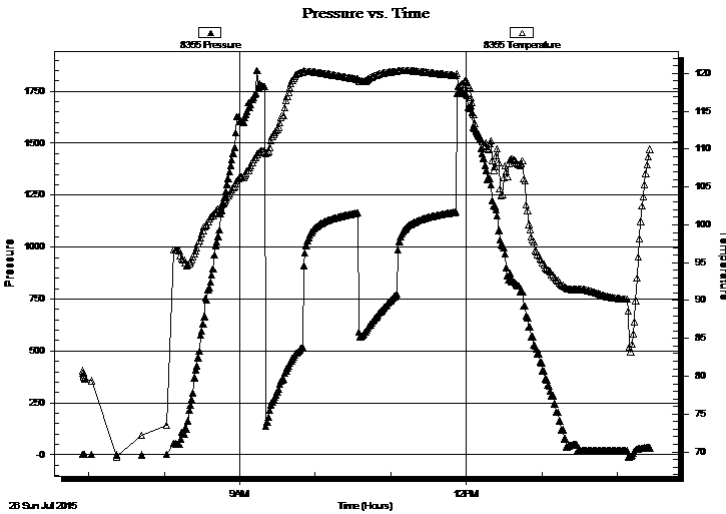
**GENERAL INFORMATION:**

Formation:	<b>LKC "C"</b>			Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No	Whipstock:	ft (KB)	Tester:	Justin Harris
Time Tool Opened:	09:20:30			Unit No:	71
Time Test Ended:	14:25:15			Reference Elevations:	2935.00 ft (KB)
<b>Interval:</b>	<b>3750.00 ft (KB) To 3793.00 ft (KB) (TVD)</b>				2924.00 ft (CF)
Total Depth:	3793.00 ft (KB) (TVD)			KB to GR/CF:	11.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Good		

<b>Serial #: 8355</b>	<b>Outside</b>			Capacity:	8000.00 psig
Press@RunDepth:	psig @	3751.00 ft (KB)		Last Calib.:	2015.07.26
Start Date:	2015.07.26	End Date:	2015.07.26	Time On Btm:	
Start Time:	06:55:05	End Time:	14:26:14	Time Off Btm:	

**TEST COMMENT:** 30: B.O.B in 2 mins  
 45: NO Return.  
 30: B.O.B in 2 mins.  
 45: NO Return.

**PRESSURE SUMMARY**



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
31.00	mcw 5m 95w	0.15
1071.00	mcw 10m 90w	15.02
630.00	omcw 5o 40m 55w	8.84

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**19-13s-35w Logan,KS**

PO Box 399  
Garden City, KS 67846

**Ward #1-19**

Job Ticket: 61851

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2015.07.26 @ 06:55:00

## Tool Information

Drill Pipe:	Length: 3720.00 ft	Diameter: 3.80 inches	Volume: 52.18 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3750.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	71.00 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			3723.00	
Shut In Tool	5.00			3728.00	
Hydraulic tool	5.00			3733.00	
Jars	5.00			3738.00	
Safety Joint	3.00			3741.00	
Packer	5.00			3746.00	28.00 Bottom Of Top Packer
Packer	4.00			3750.00	
Stubb	1.00			3751.00	
Recorder	0.00	8355	Outside	3751.00	
Recorder	0.00	8674	Inside	3751.00	
Change Over Sub	1.00			3752.00	
Drill Pipe	31.00			3783.00	
Change Over Sub	1.00			3784.00	
Perforations	4.00			3788.00	
Bullnose	5.00			3793.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**19-13s-35w Logan,KS**

PO Box 399  
Garden City, KS 67846

**Ward #1-19**

Job Ticket: 61851

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2015.07.26 @ 06:55:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 31.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 77000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	mcw 5m 95w	0.152
1071.00	mcw 10m 90w	15.023
630.00	omcw 5o 40m 55w	8.837

Total Length: 1732.00 ft      Total Volume: 24.012 bbl

Num Fluid Samples: 0

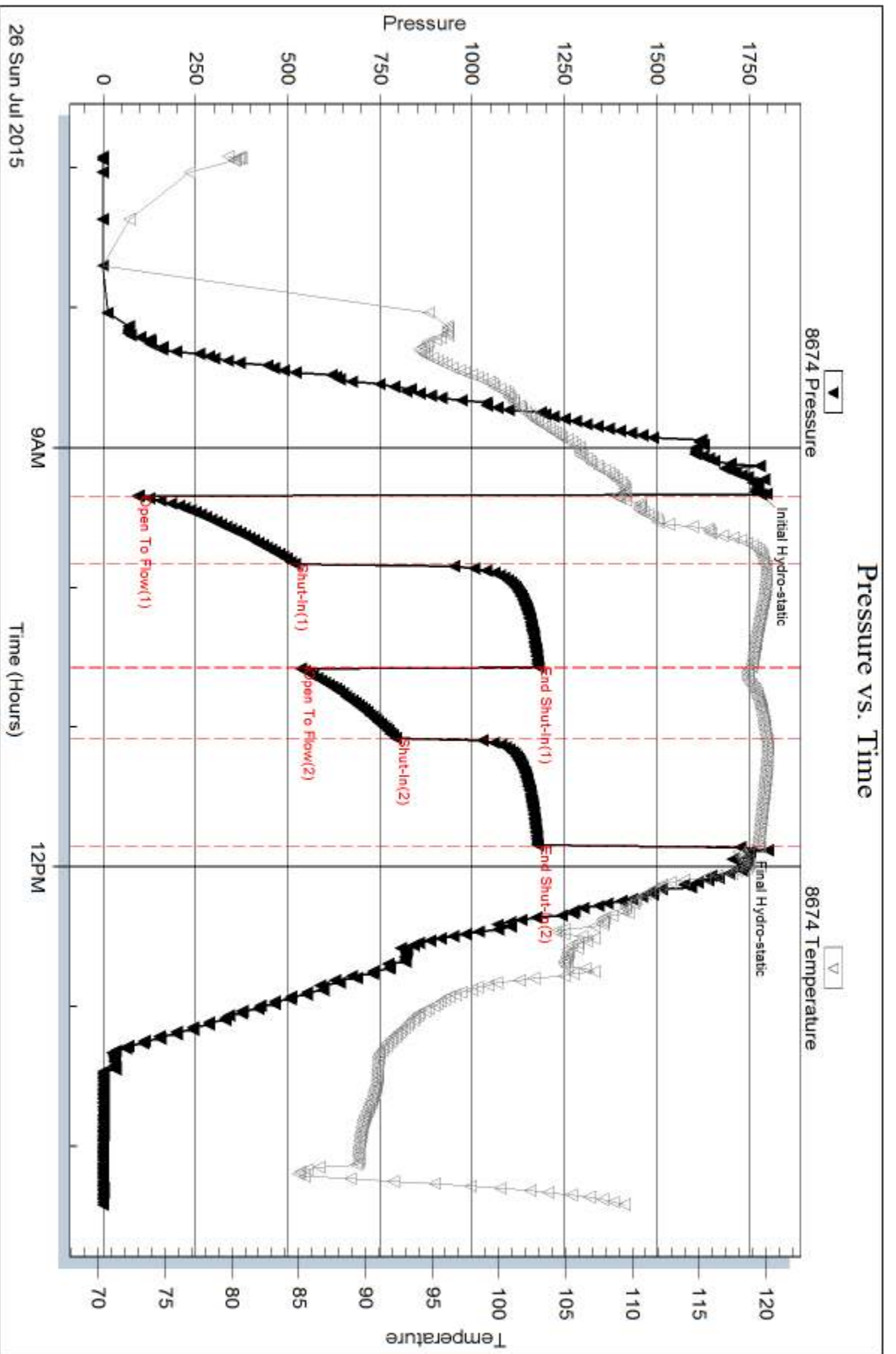
Num Gas Bombs: 0

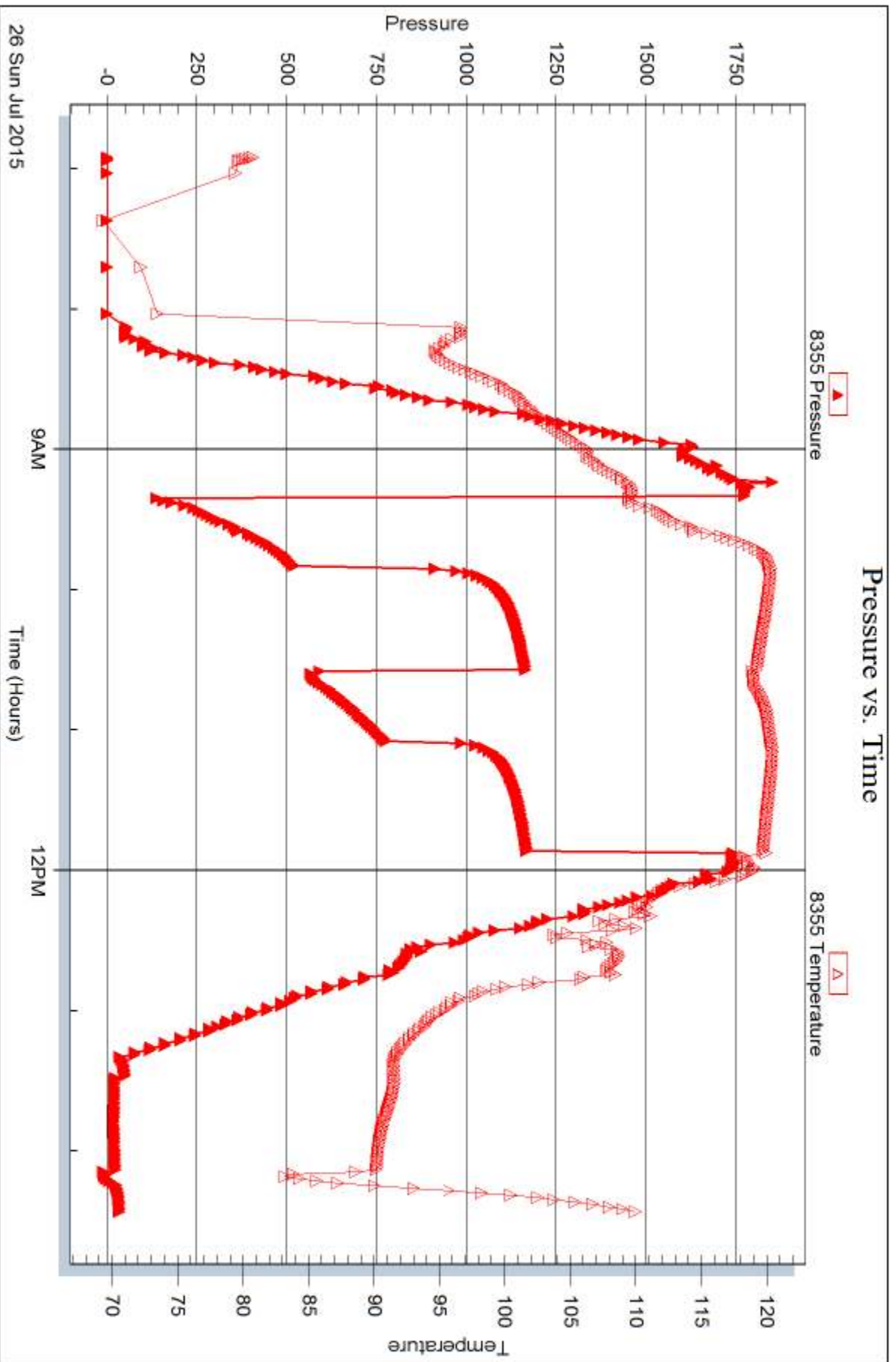
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .22 @ 105 F = 19000 Chlorides







## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Ward #1-19**

### **19-13s-35w Logan,KS**

Start Date: 2015.07.26 @ 23:13:00

End Date: 2015.07.27 @ 05:08:30

Job Ticket #: 61852                      DST #: 2

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

Printed: 2015.07.30 @ 10:53:08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

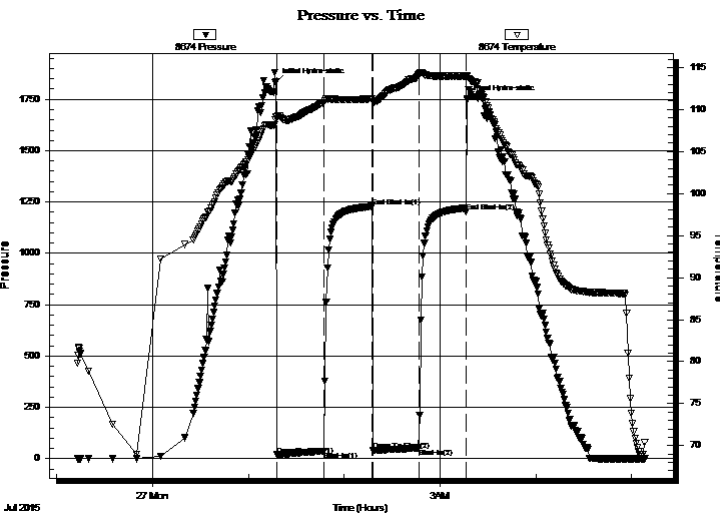
**19-13s-35w Logan,KS**  
**Ward #1-19**  
Job Ticket: 61852      **DST#: 2**  
Test Start: 2015.07.26 @ 23:13:00

## GENERAL INFORMATION:

Formation: **LKC "E"**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 01:17:45      Tester: Justin Harris  
Time Test Ended: 05:08:30      Unit No: 71  
**Interval: 3802.00 ft (KB) To 3832.00 ft (KB) (TVD)**      Reference Elevations: 2935.00 ft (KB)  
Total Depth: 3832.00 ft (KB) (TVD)      2924.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 11.00 ft

**Serial #: 8674      Inside**  
Press@RunDepth: 52.80 psig @ 3804.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.07.26      End Date: 2015.07.27      Last Calib.: 2015.07.27  
Start Time: 23:13:05      End Time: 05:08:29      Time On Btm: 2015.07.27 @ 01:17:00  
Time Off Btm: 2015.07.27 @ 03:17:00

TEST COMMENT: 30: Weak surface blow to 2".  
30: No Return.  
30: Weak surface blow to 1".  
30: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.07	108.80	Initial Hydro-static
1	18.33	108.88	Open To Flow (1)
31	36.95	110.83	Shut-In(1)
61	1228.46	111.28	End Shut-In(1)
61	38.75	110.86	Open To Flow (2)
90	52.80	114.10	Shut-In(2)
120	1201.95	113.95	End Shut-In(2)
120	1751.25	114.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	w cm 5 w 95m oil spots	0.77

\* Recovery from multiple tests

## 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

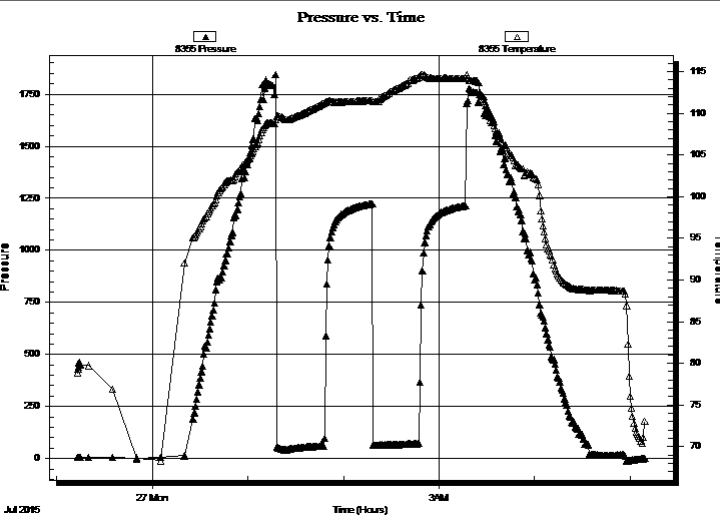
**19-13s-35w Logan,KS**  
**Ward #1-19**  
 Job Ticket: 61852      **DST#: 2**  
 Test Start: 2015.07.26 @ 23:13:00

## GENERAL INFORMATION:

Formation: **LKC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:17:45  
 Time Test Ended: 05:08:30  
 Interval: **3802.00 ft (KB) To 3832.00 ft (KB) (TVD)**  
 Total Depth: 3832.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Justin Harris  
 Unit No: 71  
 Reference Elevations: 2935.00 ft (KB)  
 2924.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8355 Outside**  
 Press@RunDepth: psig @ 3804.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.07.26      End Date: 2015.07.27      Last Calib.: 2015.07.27  
 Start Time: 23:13:05      End Time: 05:09:14      Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30: Weak surface blow to 2".  
 30: No Return.  
 30: Weak surface blow to 1".  
 30: No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	w cm 5 w 95m oil spots	0.77

\* 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.

**19-13s-35w Logan,KS**

PO Box 399  
Garden City, KS 67846

**Ward #1-19**

Job Ticket: 61852

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2015.07.26 @ 23:13:00

## Tool Information

Drill Pipe:	Length: 3753.00 ft	Diameter: 3.80 inches	Volume: 52.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3803.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 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			3776.00	
Shut In Tool	5.00			3781.00	
Hydraulic tool	5.00			3786.00	
Jars	5.00			3791.00	
Safety Joint	3.00			3794.00	
Packer	5.00			3799.00	28.00 Bottom Of Top Packer
Packer	4.00			3803.00	
Stubb	1.00			3804.00	
Recorder	0.00	8355	Outside	3804.00	
Recorder	0.00	8674	Inside	3804.00	
Perforations	23.00			3827.00	
Bullnose	5.00			3832.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior, Inc.

**19-13s-35w Logan,KS**

PO Box 399  
Garden City, KS 67846

**Ward #1-19**

Job Ticket: 61852

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2015.07.26 @ 23:13:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	w cm 5 w 95m oil spots	0.770

Total Length: 75.00 ft      Total Volume: 0.770 bbl

Num Fluid Samples: 0

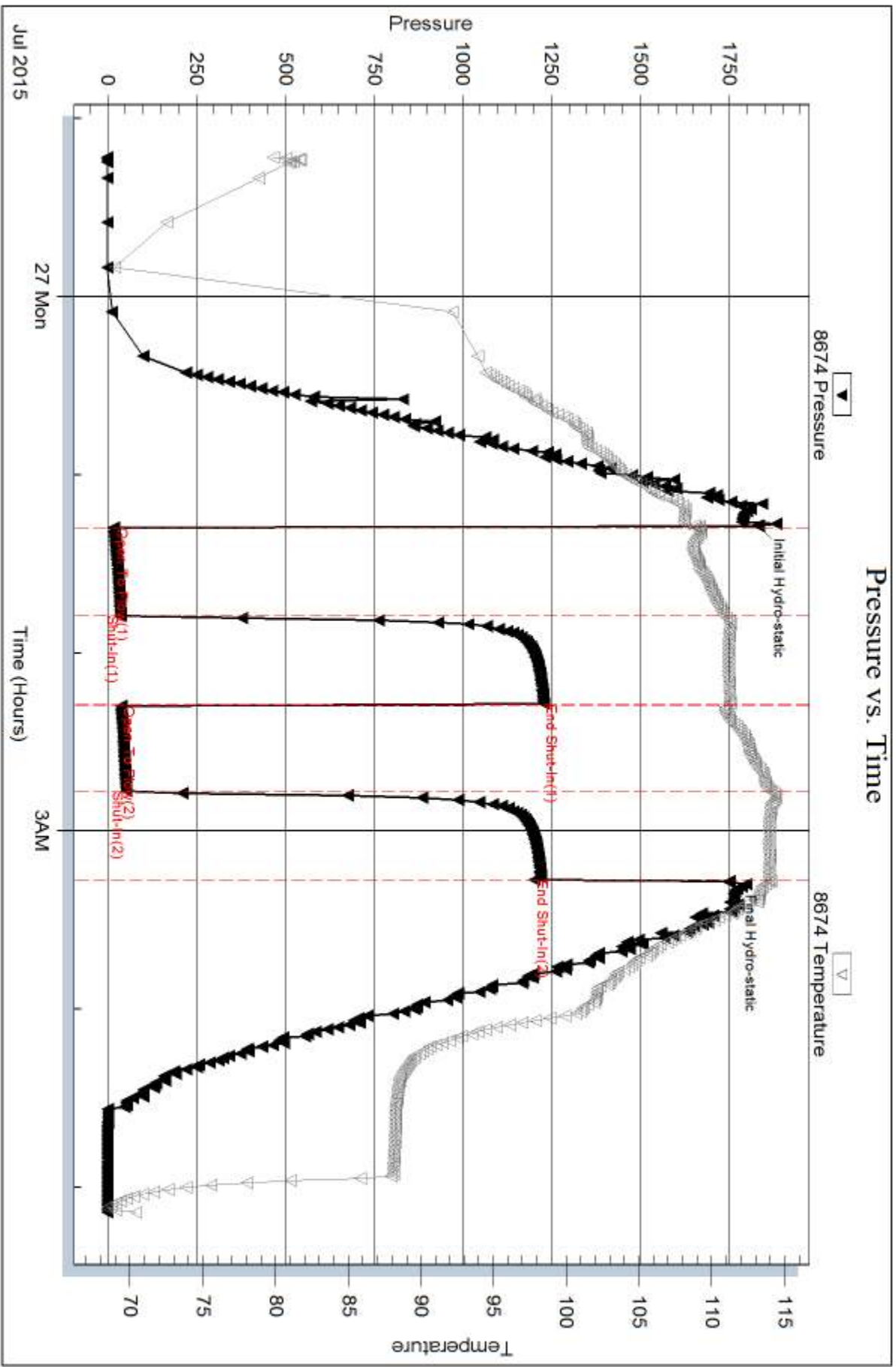
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

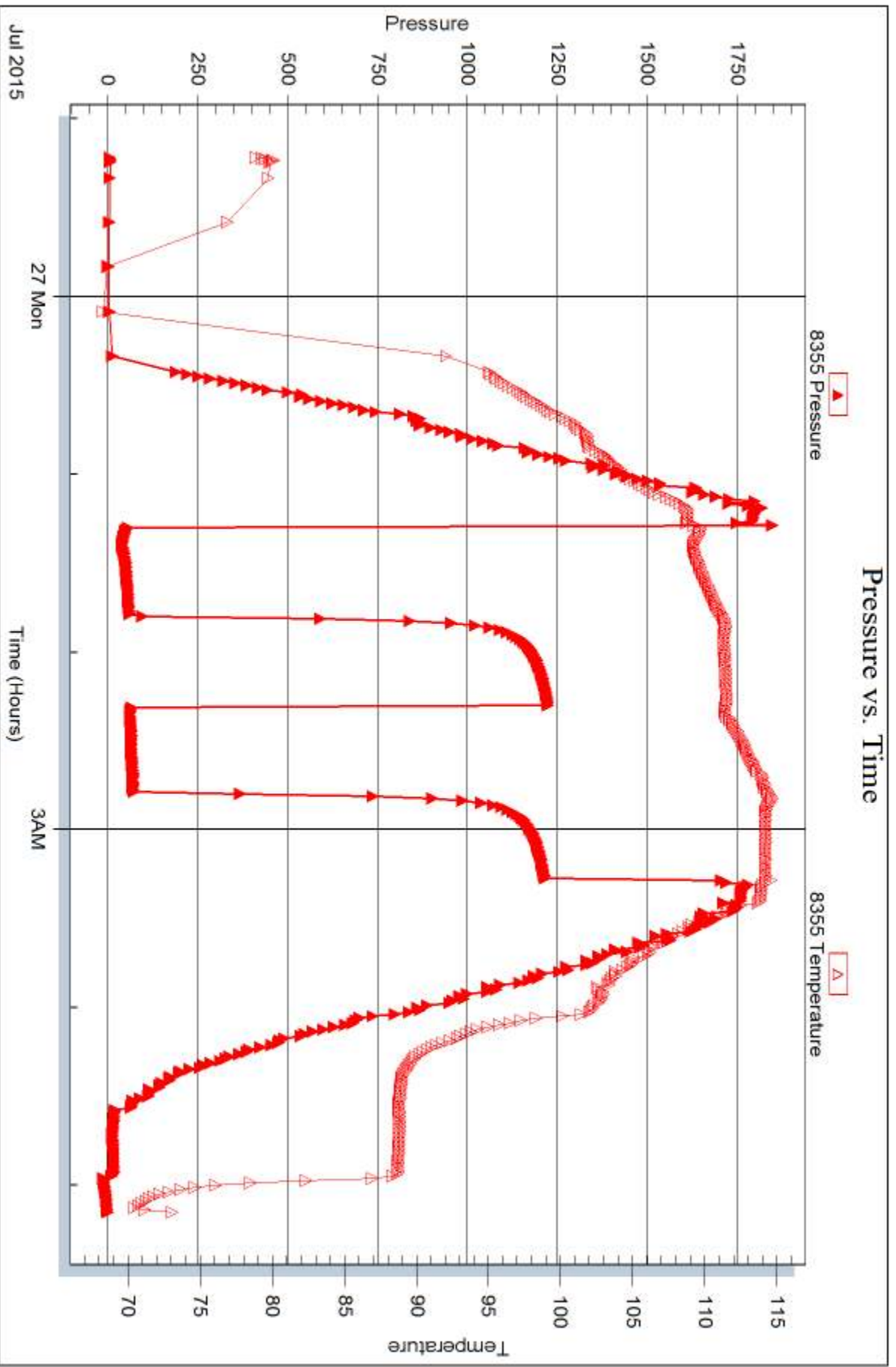


Serial #: 8355

Outside American Warrior, Inc.

Ward #1-19

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 61852

Printed: 2015.07.30 @ 10:53:10



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Ward #1-19**

### **19-13s-35w Logan,KS**

Start Date: 2015.07.27 @ 23:37:00

End Date: 2015.07.28 @ 06:39:45

Job Ticket #: 61853                      DST #: 3

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

Printed: 2015.07.30 @ 10:52:13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

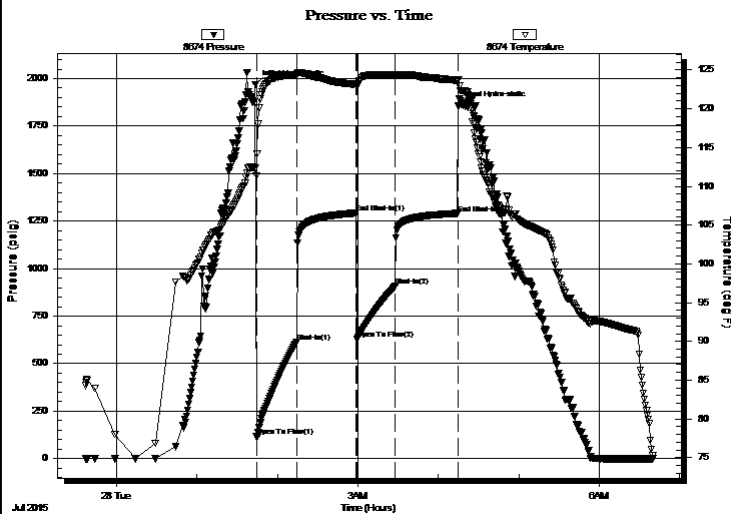
**19-13s-35w Logan,KS**  
**Ward #1-19**  
Job Ticket: 61853      **DST#: 3**  
Test Start: 2015.07.27 @ 23:37:00

## GENERAL INFORMATION:

Formation: **LKC "K"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:44:15  
Time Test Ended: 06:39:45  
Interval: **3978.00 ft (KB) To 4013.00 ft (KB) (TVD)**  
Total Depth: 4013.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Justin Harris  
Unit No: 71  
Reference Elevations: 2935.00 ft (KB)  
2924.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8674      Inside**  
Press@RunDepth: 908.72 psig @ 3979.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.07.27      End Date: 2015.07.28      Last Calib.: 2015.07.28  
Start Time: 23:37:05      End Time: 06:39:44      Time On Btm: 2015.07.28 @ 01:43:30  
Time Off Btm: 2015.07.28 @ 04:15:00

TEST COMMENT: 30: B.O.B in 2 mins.  
45: No Return.  
30: B.O.B in 2 mins  
45: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.08	112.32	Initial Hydro-static
1	116.30	111.36	Open To Flow (1)
31	614.40	124.38	Shut-In(1)
75	1293.47	123.24	End Shut-In(1)
76	628.43	122.91	Open To Flow (2)
105	908.72	124.33	Shut-In(2)
151	1290.89	123.65	End Shut-In(2)
152	1855.35	123.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
694.00	mcw 5m 95w	9.45
975.00	mcw 10m 90w	13.68
315.00	mcw 30m 70w oil spots	4.42

\* Recovery from multiple tests

## 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

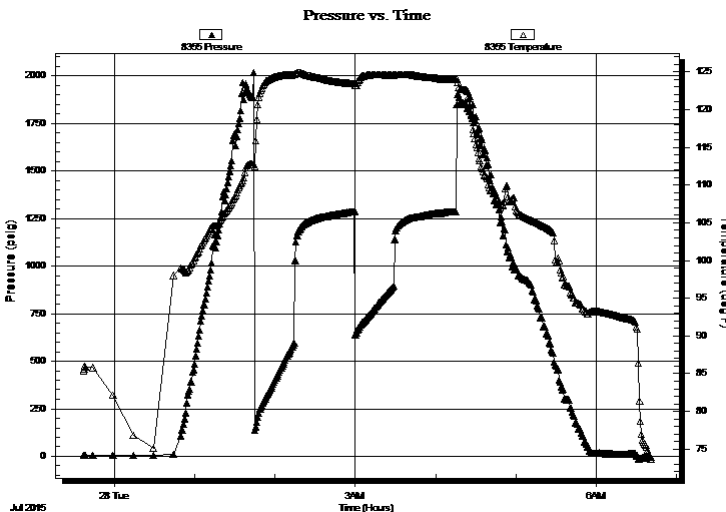
**19-13s-35w Logan, KS**  
**Ward #1-19**  
 Job Ticket: 61853      **DST#: 3**  
 Test Start: 2015.07.27 @ 23:37:00

**GENERAL INFORMATION:**

Formation: <b>LKC "K"</b> Deviated:      No Whipstock:      ft (KB) Time Tool Opened: 01:44:15 Time Test Ended: 06:39:45  <b>Interval:      3978.00 ft (KB) To      4013.00 ft (KB) (TVD)</b> Total Depth:      4013.00 ft (KB) (TVD) Hole Diameter:      7.88 inches Hole Condition:      Good	Test Type:      Conventional Bottom Hole (Reset) Tester:      Justin Harris Unit No:      71  Reference Elevations:      2935.00 ft (KB) 2924.00 ft (CF) KB to GR/CF:      11.00 ft
--	---

<b>Serial #: 8355      Outside</b>	Press@RunDepth:      psig @      3979.00 ft (KB)	Capacity:      8000.00 psig
Start Date:      2015.07.27      End Date:      2015.07.28	Start Time:      23:37:05      End Time:      06:40:44	Last Calib.:      2015.07.28
		Time On Btm: Time Off Btm:

TEST COMMENT: 30: B.O.B in 2 mins.  
 45: No Return.  
 30: B.O.B in 2 mins  
 45: No Return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
694.00	mcw 5m 95w	9.45
975.00	mcw 10m 90w	13.68
315.00	mcw 30m 70w oil spots	4.42

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**19-13s-35w Logan,KS**

PO Box 399  
Garden City, KS 67846

**Ward #1-19**

Job Ticket: 61853

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2015.07.27 @ 23:37:00

## Tool Information

Drill Pipe:	Length: 3944.00 ft	Diameter: 3.80 inches	Volume: 55.32 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3978.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 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			3951.00	
Shut In Tool	5.00			3956.00	
Hydraulic tool	5.00			3961.00	
Jars	5.00			3966.00	
Safety Joint	3.00			3969.00	
Packer	5.00			3974.00	28.00 Bottom Of Top Packer
Packer	4.00			3978.00	
Stubb	1.00			3979.00	
Recorder	0.00	8355	Outside	3979.00	
Recorder	0.00	8674	Inside	3979.00	
Perforations	29.00			4008.00	
Bullnose	5.00			4013.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior, Inc.

**19-13s-35w Logan,KS**

PO Box 399  
Garden City, KS 67846

**Ward #1-19**

Job Ticket: 61853

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2015.07.27 @ 23:37:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 90.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
694.00	mcw 5m 95w	9.453
975.00	mcw 10m 90w	13.677
315.00	mcw 30m 70w oil spots	4.419

Total Length: 1984.00 ft      Total Volume: 27.549 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

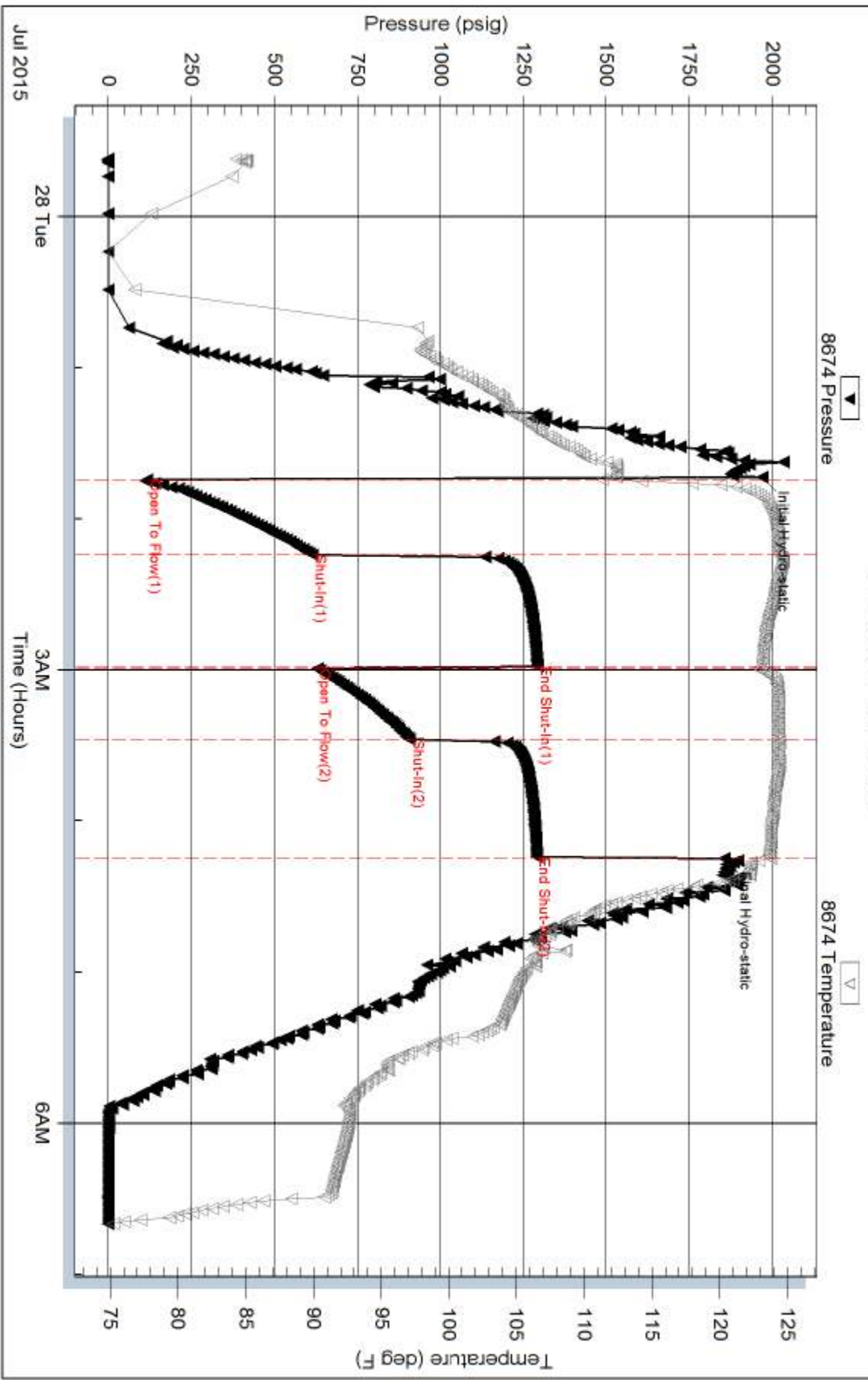
Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .22 @ 85F



### Pressure vs. Time

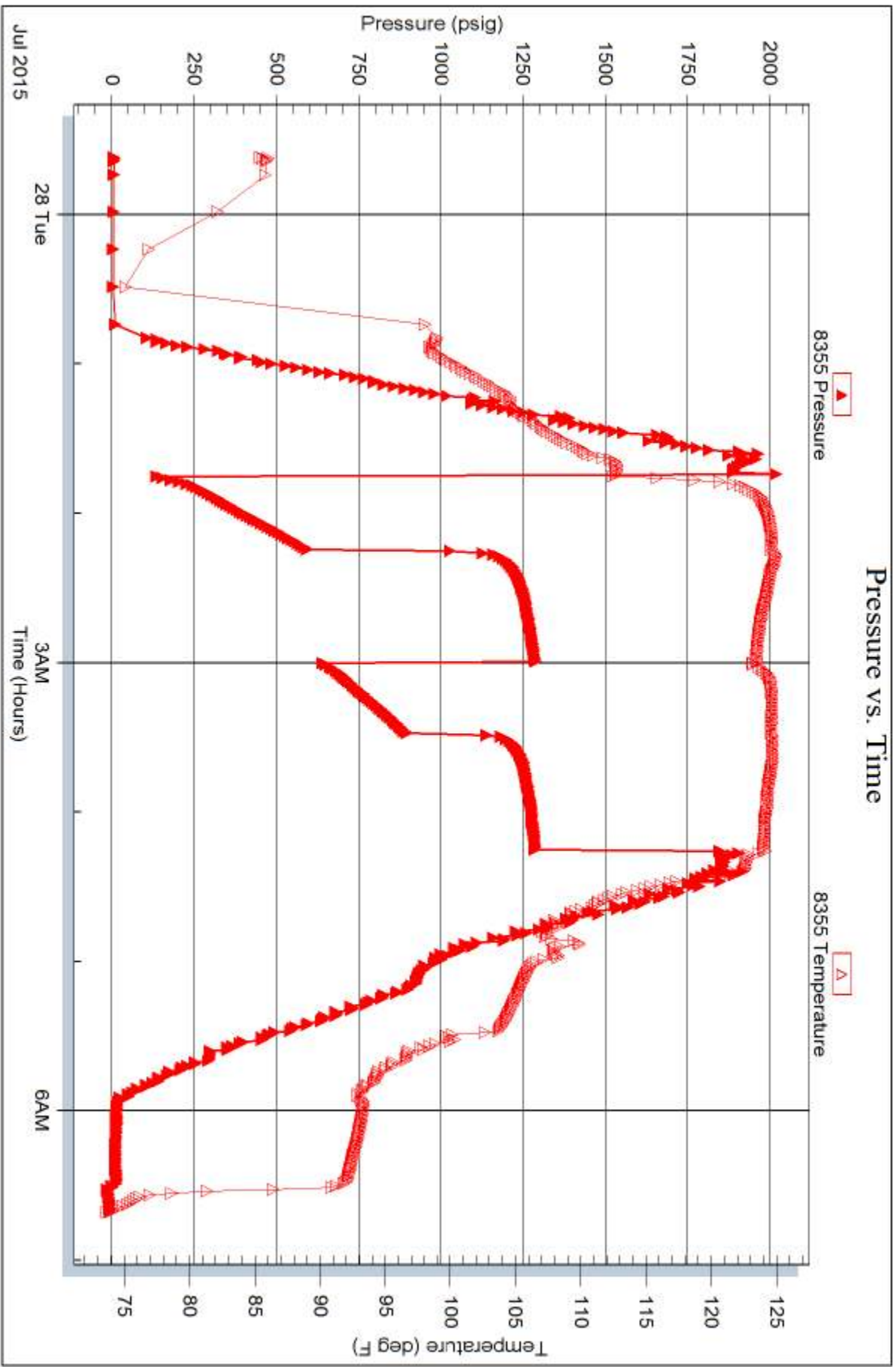


Serial #: 8355

Outside American Warrior, Inc.

Ward #1-19

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61853

Printed: 2015.07.30 @ 10:52:14



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61851

Well Name & No. Ward # 1-19 Test No. 1 Date 07-26  
 Company American Warrior, Inc Elevation 2935 KB 2924 GL  
 Address 3118 Cummins RD P.O. Box 399 Garden city MO, 67846  
 Co. Rep / Geo. Kevin Timson Rig Discovery #1  
 Location: Sec. 19 Twp. 13B Rge. 35W Co. Logan State KS

Interval Tested 3750 3793 Zone Tested Lensing 'C'  
 Anchor Length 43 Drill Pipe Run 3720 Mud Wt. 9.5  
 Top Packer Depth 4746 Drill Collars Run 31 Vis 31  
 Bottom Packer Depth 4750 Wt. Pipe Run Ø WL N/C  
 Total Depth 4793 Chlorides 77,000 ppm System LCM 1  
 Blow Description 30 B.O. B in 2 mins  
45 No Return  
30 B.O. B in 2 mins  
45 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>OMCW</u>		<u>5</u>	<u>55</u>	<u>40</u>
<u>1071</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
<u>31</u>	<u>MCW</u>			<u>95</u>	<u>5</u>

Rec Total 1732 BHT 120 Gravity - API RW 22 @ 105 °F Chlorides 19000 ppm  
 (A) Initial Hydrostatic 1783  Test 1050 T-On Location 5:75  
 (B) First Initial Flow 93  Jars 250 T-Started 6:55  
 (C) First Final Flow 518  Safety Joint 75 T-Open 9:20  
 (D) Initial Shut-In 1180  Circ Sub N/C T-Pulled 11:50  
 (E) Second Initial Flow 534  Hourly Standby \_\_\_\_\_ T-Out 14:25  
 (F) Second Final Flow 792  Mileage 425 BT Comments \_\_\_\_\_  
 (G) Final Shut-In 1178  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1727  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45  
 Sub Total 0  
 Total 1500  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1500

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. 61852

Well Name & No. Ward 1-19 Test No. 2 Date 07/24 07/27  
 Company American Warrior, Inc. Elevation 2935 KB 2924 GL  
 Address 31186 Cumming AD P.O. Box 399 Garden City KS 67846 Rig Discovery #1  
 Co. Rep / Geo. Kevin Timson Rge. 35W Co. Logan State KS  
 Location: Sec. 19 Twp. 13S

Interval Tested 3803 3832 Zone Tested Lansing "E" Mud Wt. 8.9  
 Anchor Length 29 Drill Pipe Run 3753 Vis 55  
 Top Packer Depth 3899 Drill Collars Run 31 WL 8.0  
 Bottom Packer Depth 3803 Wt. Pipe Run \_\_\_\_\_ LCM 1  
 Total Depth 3832 Chlorides 2400 ppm System \_\_\_\_\_

Blow Description 30 weak surface blow to 2"  
30 No Return  
30 weak surface blow to 1"  
30 No Return

Rec	Feet of	%gas	%oil	%water	%mud
31	oil spots wcm		5	95	
44	oil spots wcm		5	95	

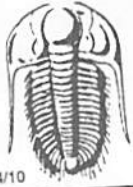
Rec Total 75 BHT 114 Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1830  Test 1050  
 (B) First Initial Flow 18  Jars 250  
 (C) First Final Flow 37  Safety Joint 75  
 (D) Initial Shut-In 1228  Circ Sub N/C  
 (E) Second Initial Flow 39  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow 53  Mileage 125 BT  
 (G) Final Shut-In 1202  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1751  Straddle \_\_\_\_\_

T-On Location 2250  
 T-Started 2313  
 T-Open 1:17  
 T-Pulled 3:17  
 T-Out 5:08

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1500  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1500

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. 61853

Well Name & No. Ward # 1-19 Test No. 3 Date 07/27 07/28  
 Company American Warrior, Inc. Elevation 2935 KB 2924 GL  
 Address 3118 Cumming Rd P.O. Box 399 Garden city KS, 67846  
 Co. Rep / Geo. Kevin Tinson Rig Discovery #1  
 Location: Sec. 19 Twp. 13S Rge. 35W Co. Logan State Ks

Interval Tested 3978 4013 Zone Tested Lansing 'K'  
 Anchor Length 35 Drill Pipe Run 3944 Mud Wt. 9.0  
 Top Packer Depth 3974 Drill Collars Run 31 Vis 55  
 Bottom Packer Depth 3978 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4013 Chlorides 3000 ppm System LCM 1  
 Blow Description 30 B.O.B in 2 mins.  
45 No Return  
30 B.O.B in 2 mins  
45 No Return

Rec	Feet of	%gas	%oil	%water	%mud
315	Feet of <u>mcw with oil spots</u>			70%	30%
975	Feet of <u>mcw</u>			90%	10%
643	Feet of <u>mcw</u>			95%	5%
31	Feet of <u>mcw</u>			95%	5%
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1984 BHT 124 Gravity \_\_\_\_\_ API RW 22 @ 85 ° F Chlorides 26000 ppm  
 (A) Initial Hydrostatic 1969  Test 1150  
 (B) First Initial Flow 116  Jars 250  
 (C) First Final Flow 614  Safety Joint 75  
 (D) Initial Shut-In 1293  Circ Sub N/C  
 (E) Second Initial Flow 628  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow 909  Mileage 125 BT +125  
 (G) Final Shut-In 1291  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1555  Straddle \_\_\_\_\_

T-On Location 2235  
 T-Started 2237  
 T-Open 0044  
 T-Pulled 314  
 T-Out 6:39  
 Comments Load tools  
7/30 @ 8:20 Am

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby 1.5d 13.75h  
 Accessibility \_\_\_\_\_  
 Sub Total 1725

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 800  
 Total 2525  
 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.

# **Geological Report**

American Warrior, Inc.

## **Ward #1-19**

1976' FSL & 2517' FWL

Sec. 19, T13s, R35w

Logan County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Ward #1-19  
1976' FSL & 2517' FWL  
Sec. 19, T13s, R35w  
Logan County, Kansas  
API # 15-109-21417-00-00

Drilling Contractor: Discovery Drilling Rig #1

Geologist: Kevin Timson

Spud Date: July 22, 2015

Completion Date: July 30, 2015

Elevation 2924' G.L.  
2935' K.B.

Directions: From Russell Springs, KS. Go SW on Hwy 25 5 miles to 220 Rd. Go North 1/4 mile on 220 Rd and East on lease road.

Casing: 211' 8 5/8" #23 Surface Casing  
4602' 5 1/2" #15.5 Production Casing

Samples: 3600' to RTD 10' Wet & Dry

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "J. Henrickson"  
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Justin Harris"

Problems: None

## Formation Tops

Ward #1-19

Sec. 19, T13s, R35w

1976' FSL & 2517' FWL

Anhydrite	2304' +631
Base	2324' +611
Heebner	3684' -749
Lansing	3728' -793
Stark	3981' -1046
BKc	4055' -1120
Marmaton	4101' -1166
Pawnee	4189' -1254
Fort Scott	4248' -1313
Cherokee	4278' -1343
Morrow	4399' -1464
RTD	4600' -1665
LTD	4603' -1668

## Sample Zone Descriptions

### Lansing C

#### Covered in DST #1

Ls. Off white. Sub crystalline. Fair to good vuggy porosity. Good Stain. Good Saturation. Fair show of free oil. Good show of free oil when broken. Good odor. 15 Unit kick.

### Lansing E

#### Covered in DST #2

Ls. Off white. Sub crystalline. Fair vuggy porosity/ fair to good oomoldic porosity. Good stain. Fair saturation. Fair show of free oil when broken. Fair odor. 10 Unit kick.

### Lansing K

#### Covered in DST #3

Ls. Tan. Sub crystalline. Good vuggy/ good oomoldic porosity. Fair to good stain. Good saturation. Good show of free oil when broken. Fair odor. No kick.



**Drill Stem Tests**  
Trilobite Testing  
"Justin Harris"

**DST #1**

**Lansing 'C'**

Interval (3750' - 3793') Anchor Length 43'

IHP -1783 #  
IFP - 30" – BOB in 2 min 93-518 #  
ISI - 45" – No Return 1180 #  
FFP - 30" – BOB in 2 min 536-792 #  
FSIP - 45" - No Return 1178 #  
FHP - 1727 #  
BHT - 120° F  
Recovery: 630' OMCW (5% Oil)  
2032' MCW

**DST #2**

**Lansing 'E'**

Interval (3803' - 3832') Anchor Length 29'

IHP -1830 #  
IFP - 30" - WSB built to 2" 18-37#  
ISI - 30" - No Return 1228 #  
FFP - 30" - WSB built to 1" 39-53 #  
FSIP - 30" - No Return 1202 #  
FHP -1751 #  
BHT - 114° F  
Recovery: 75' Mud with oil spots

**DST #3**

**Lansing 'K'**

Interval (3978' - 4013') Anchor Length 35'

IHP -1969 #  
IFP - 30" - BOB in 2 min 116-614 #  
ISI - 45" - No Return 1293 #  
FFP - 30" - BOB in 2 min 628-909 #  
FSIP - 45" - No Return 1291 #  
FHP - 1855 #  
BHT - 124° F  
Recovery: 315' MCW with oil spots  
1669' MCW

## Structural Comparison

	American Warrior, Inc. Ward #1-19 Sec. 19, T13s, R35w 1976' FSL & 2517' FWL		American Warrior, Inc. Sneed-Lamb #1-24 Sec. 24, T13s, R36w 878' FNL & 1235' FWL		Texaco Inc. Berry #1 Sec 21, T13s, R36w 1650' FSL & 330' FEL
<b>Formation</b>					
Heebner	3684' -749	+12	3715' -761	+8	3776' -757
Lansing	3728' -793	+15	3762' -808	+13	3825' -806
Stark	3981' -1046	+19	4019' -1065	+22	4087' -1068
BKC	4055' -1120	+18	4092' -1138	+15	4154' -1135
Marmaton	4101' -1166	+10	4130' -1176	+10	4195' -1176
Pawnee	4189' -1254	+12	4220' -1266	+17	4290' -1271
Fort Scott	4248' -1313	+9	4276' -1322	+15	4347' -1328
Cherokee	4278' -1343	+10	4307' -1353	+16	4378' -1359
Morrow	4399' -1464	+12	4478' -1476	+24	4507' -1488
Miss	4464' -1529	+14	4497' -1543	+74	4622' -1603

### Summary

The location for the Ward #1-19 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 run 5 1/2" production casing to further evaluate the well, or to convert to a SWD well.

### Perforations

**Primary:**                    **Lansing 'C'**                    **(3767' - 3771')**

**Secondary:**                    **Atoka**                    **(4373' - 4377')**



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1476

Date	7-22-15	Sec.	19	Twp.	13	Range	35	County	Logan	State	KS	On Location		Finish	7:00 PM
								Location Russell Springs 4W 220 1/4 N E into							

Lease	Ward	Well No.	1-19	Owner											
Contractor	D. Spover #1			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Type Job	Surface			Charge To	American Warrior										
Hole Size	12 1/4	T.D.	221												
Csg.	8 5/8	Depth	220												
Tbg. Size		Depth													
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	15'	Shoe Joint		Cement Amount Ordered	160 80/20 3 1/2 CC 2 1/2 GEL										
Meas Line		Displace	13 Bc												

**EQUIPMENT**

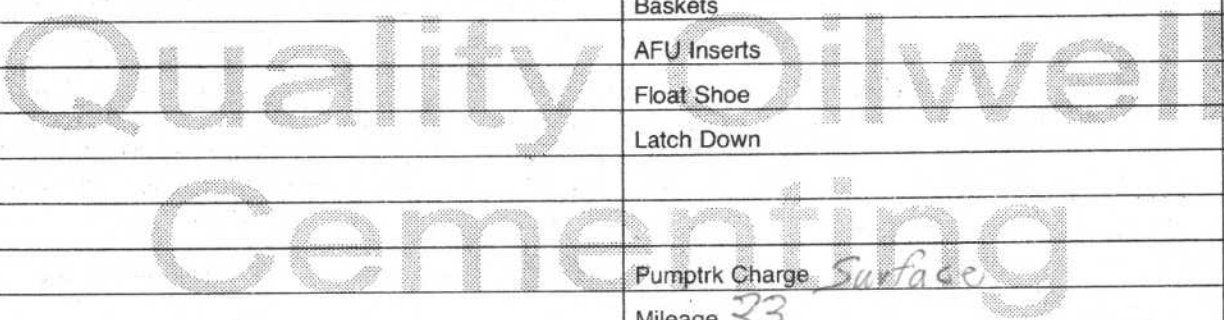
Pumptrk	18	No.	Cement Helper	Craig	Common	128
Bulktrk		No.	Driver	Cal	Poz. Mix	32
Bulktrk	14	No.	Driver	David	Gel.	3
			Driver		Calcium	7

**JOB SERVICES & REMARKS**

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
8 5/8 on bottom. Best Circulation.		Sand	
Mix 460 SR + Displace.		Handling	170
		Mileage	

**FLOAT EQUIPMENT**

		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	



Pumptrk Charge	Surface
Mileage	33

X Signature <i>[Signature]</i>	Tax	
	Discount	
	Total Charge	



CHARGE TO: **AMERICAN WARRIOR Inc.**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 28578

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. **Ness City, Ks**  
 2.  
 3.  
 4.

WELL/PROJECT NO. **1-19** LEASE **WARD** COUNTY/PARISH **LOGAN** STATE **Ks** CITY DATE **7-30-15** OWNER **SAME**

TICKET TYPE  SERVICE  SALES CONTRACTOR **DISCOVERY DRILG #1** RIG NAME/NO. SHIPPED VIA **CT** DELIVERED TO **LOCATION** ORDER NO.

WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **5 1/2" LONGSTRING** WELL PERMIT NO. WELL LOCATION **SW/RUSSELL SPRINGS, Ks**

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 112	90		ME		5.00	450.00
578		1			PUMP CHARGE	1		JOB	4601 FT	1250.00	1250.00
221		1			LIQUID KCL	2		GAL		25.00	50.00
281		1			MUDFLUSH	500		GAL		1.25	625.00
402		1			CENTRALIZERS	8		EA	5 1/2"	60.00	480.00
403		1			CEMENT BASKETS	2		EA		250.00	500.00
404		1			PORT COLLAR	1		EA	2286 FT	2500.00	2500.00
406		1			LATCH DOWN PLUG + BAFFLE	1		EA		225.00	225.00
407		1			INSERT FLOAT SHOE w/ AUTO FELL	1		EA		300.00	300.00
419		1			ROTATING HEAD RENTAL	1		JOB		200.00	200.00

**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

X *Cliff Mayfield*  
 DATE SIGNED **7-30-15** TIME SIGNED **1300**  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	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	6580.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	4767.22
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					
				subtotal	11,347.22
				TAX Logan 8.0%	701.30
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	12,048.52



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

TICKET CONTINUATION

TICKET  
No. 28578

CUSTOMER <b>AMERICAN WARRIOR INC</b>	WELL <b>WARD 1-19</b>	DATE <b>7-30-15</b>	PAGE <b>2</b>	OF <b>2</b>
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M			
325		1				STANDARD CEMENT	FA-2	175	SKS			12.25	2143.75
276		1				FLOCELE		50	lbs			2.25	112.50
283		1				SALT		900	lbs			20	180.00
284		1				CALSEAL		8	SKS	800	lbs	30.00	240.00
292		1				HAWD-322		125	lbs			8.00	1000.00
290		1				D-ADR		5	GAL			42.00	210.00
581		1				SERVICE CHARGE							
583		1				MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES					
							18325	90					

CONTINUATION TOTAL 4767.22

JOB LOG

SWIFT Services, Inc.

DATE 7-30-15 PAGE NO.

CUSTOMER American Warriner Inc WELL NO. 1-19 LEASE WARD JOB TYPE 5 1/2" LONGSTRING TICKET NO. 28578

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							ON LOCATION
	1530							START 5 1/2" CASING IN WELL
								TD - 4603' SET @ 4601
								TP - 4601' 5 1/2" # 15.5
								ST - 42'
								CENTRALIZERS - 2, 4, 6, 8, 10, 12, 14, 55
								CMT BSKTS - 2, 56
								PORT COLLAR = 2286' TOP JT # 56
	1710							DROP BALL - CIRCULATE ROTATE
	1735	6 1/2	12		✓		400	PUMP 500 GAL MUD FLUSH
		6 1/2	20		✓		400	PUMP 20 BBL KCL - FLUSH
			7 - <del>XX</del>					PLUG RH (30 SKS) <del>145</del>
	1745	4 1/2	36		✓		200	MIX CEMENT - <del>145</del> SKS EA-2 @ 15.5 PPG
								WASH OUT PUMP - LINES
								RELEASE LATCH DOWN PLUG
	1800	6 1/2	0		✓		200	DISPLACE PLUG
		6 1/2	98				500	SHUT OFF ROTATE
	1818	6 1/2	108.5				1500	PLUG DOWN - PSE UP LATCH IN PLUG
								OK RELEASE PSE - HELD
								WASH TRUCK
	1900							JOB COMPLETE

THANK YOU  
WARRIE, DAVE K., JOHN, ROB



CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 28660

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Mo Co, KS WELL/PROJECT NO. 1-9 LEASE WARD COUNTY/PARISH Logan STATE KS CITY Russell Springs DATE 10 AUG 15 OWNER  
 2. TICKET TYPE  SERVICE CONTRACTOR RIG NAME/NO. SHIPPED VIA CT DELIVERED TO location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY CO TOOLS Development JOB PURPOSE concrete port collar WELL PERMIT NO. WELL LOCATION  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>		<u>1</u>			MILEAGE <u>TRK 114</u>	<u>100</u>	<u>mi</u>			<u>5.00</u>	<u>500.00</u>
<u>576D</u>		<u>1</u>			<u>Pump Charge</u>	<u>1</u>	<u>ea</u>			<u>1250.00</u>	<u>1250.00</u>
<u>330</u>		<u>1</u>			<u>SWD cement</u>	<u>225</u>	<u>sk</u>			<u>15.75</u>	<u>3543.75</u>
<u>276</u>		<u>1</u>			<u>Floacle</u>	<u>75</u>	<u>lb</u>			<u>2.25</u>	<u>168.75</u>
<u>290</u>		<u>1</u>			<u>D-AIR</u>	<u>3</u>	<u>gal</u>			<u>42.00</u>	<u>126.00</u>
<u>581</u>		<u>1</u>			<u>service charge</u>	<u>250</u>	<u>sk</u>			<u>1.50</u>	<u>375.00</u>
<u>583</u>		<u>1</u>			<u>Drayage</u>	<u>24877</u>	<u>lb</u>	<u>1243.88</u>	<u>TM</u>	<u>0.75</u>	<u>932.91</u>
<u>164</u>		<u>1</u>			<u>Port Collar Opening Tool rental</u>	<u>1</u>	<u>ea</u>	<u>52</u>	<u>m</u>	<u>200.00</u>	<u>200.00</u>

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.  
1055

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				709641	
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? <input type="checkbox"/> YES <input type="checkbox"/> NO					
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
				TOTAL	7419149

Logan  
 TAX 8.0%  
323.08

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

SWIFT OPERATOR ABE bell APPROVAL \_\_\_\_\_

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 10/16/15 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-9 LEASE WARD JOB TYPE cement port collar TICKET NO. 28660

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								250 sk SMD w/ 1/4" Flocco, 2 3/8 x 5 1/2 port collar - 2289'
	0845							on loc TRR 114
	0905					1000	1000	test to 1000psi - held open port collar
	0912	3 1/2	2			300		inj rate 3 1/2 bpm @ 300psi
	0915	3 1/2				300		mix SMD cement @ 11.2 ppg
		3 1/2	13			300		- fluid to surface -
		3 1/2	125			500		— cement to surface —
		3 1/2	8			500		Displace w/ H2O } 225 sk mixed } 15 top it }
								close port collar
	1005					1000	1000	test to 1000 psi - held
	1010							Run 5 joints
	1020							Reverse hole clean - 2 cement flags -
	1030							wash truck
								Rack up
	1055							job complete
								Thanks Blaine, Flint, & Isaac