

#### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1081928

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	

#### **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					
Letter of Confidentiality Received					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II III Approved by: Date:					

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [		Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc.  Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (	00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d		Type and F	Percent Additives	
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (	Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						

Form	ACO1 - Well Completion		
Operator	American Warrior, Inc.		
Well Name	Adrienne 2-18		
Doc ID	1081928		

#### Tops

Name	Тор	Datum
Anhydrige	1443	766
Heebner	3692	-1481
Lansing	3740	-1529
Base Kansas City	4076	-1865
Pawnee	4155	-1944
Ft. Scott	4230	-2019
Cherokee	4249	-2038
Mississippian	4316	-2105
TD	4350	-2137



Prepared For: American Warrior, Inc.

PO Box 399

Garden City, KS 67846

ATTN: Jason Alm

#### Adrienne #2-18

#### 18-19s-21w Ness,KS

Start Date: 2011.12.01 @ 00:58:26 End Date: 2011.12.01 @ 06:34:26 Job Ticket #: 44698 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



American Warrior, Inc.

Garden City, KS 67846

18-19s-21w Ness, KS

Adrienne #2-18

PO Box 399

Job Ticket: 44698

Tester:

Unit No:

ATTN: Jason Alm

Test Start: 2011.12.01 @ 00:58:26

#### **GENERAL INFORMATION:**

Formation: Cherokee Sand

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 03:11:11 Time Test Ended: 06:34:26

Interval: 4242.00 ft (KB) To 4265.00 ft (KB) (TVD)

Total Depth: 4265.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2210.00 ft (KB)

Jason McLemore

54

2205.00 ft (CF)

DST#: 1

KB to GR/CF: 5.00 ft

Serial #: 8673 Inside

Press@RunDepth: 110.91 psig @ 4244.00 ft (KB) Capacity: 8000.00 psig

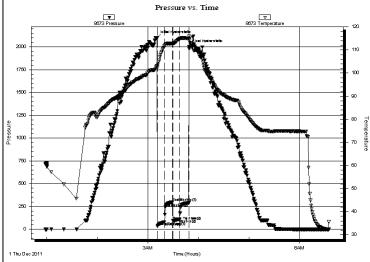
 Start Date:
 2011.12.01
 End Date:
 2011.12.01
 Last Calib.:
 2011.12.01

 Start Time:
 00:58:28
 End Time:
 06:34:26
 Time On Btm:
 2011.12.01 @ 03:10:56

 Time Off Btm:
 2011.12.01 @ 03:48:56

TEST COMMENT: IFP-Strong, BOB in 5 Min.

ISI-Blow back Built to 1" FFP-Strong, BOB in 6 Min. FSI-Blow back Built to 1-1/2"



	PRESSURE SUMMARY						
•	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2098.70	102.99	Initial Hydro-static			
	1	34.64	102.35	Open To Flow (1)			
	9	79.09	111.61	Shut-In(1)			
	19	296.82	112.82	End Shut-In(1)			
Tem	19	95.37	112.82	Open To Flow (2)			
Temperature	27	110.91	114.75	Shut-In(2)			
ire	38	289.87	114.94	End Shut-In(2)			
	38	1999.85	114.88	Final Hydro-static			

DDECCLIDE CLIMMADY

#### Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCMW-20%G-25%O-50%W-5%M	1.44
50.00	HOCWM-40%O-20%W-40%M	0.70
0.00	300' Gas In Pipe	0.00

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



American Warrior, Inc.

18-19s-21w Ness, KS

Adrienne #2-18

Tester:

Unit No:

PO Box 399

Garden City, KS 67846 Job Ticket: 44698

ATTN: Jason Alm

Test Start: 2011.12.01 @ 00:58:26

54

DST#: 1

2210.00 ft (KB)

2205.00 ft (CF)

#### GENERAL INFORMATION:

Formation: **Cherokee Sand** 

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 03:11:11 Time Test Ended: 06:34:26

Interval: 4242.00 ft (KB) To 4265.00 ft (KB) (TVD) Reference ⊟evations:

Total Depth: 4265.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good KB to GR/CF: Hole Diameter:

5.00 ft

Jason McLemore

Serial #: 8736 Outside

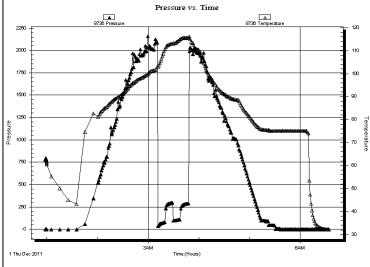
Press@RunDepth: 4244.00 ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2011.12.01 End Date: 2011.12.01 Last Calib.: 2011.12.01

Start Time: 00:58:16 End Time: Time On Btm: 06:34:10 Time Off Btm:

TEST COMMENT: IFP-Strong, BOB in 5 Min.

ISI-Blow back Built to 1" FFP-Strong, BOB in 6 Min. FSI-Blow back Built to 1-1/2"



#### Pressure Temp Annotation

PRESSURE SUMMARY

,	(Min.)	(psig)	(deg F)	Annotation	
)					
Temperature					

#### Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCMW-20%G-25%O-50%W-5%M	1.44
50.00	HOCWM-40%O-20%W-40%M	0.70
0.00	300' Gas In Pipe	0.00

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TOOL DIAGRAM** 

American Warrior, Inc.

18-19s-21w Ness, KS

PO Box 399

Adrienne #2-18

Job Ticket: 44698

DST#: 1

ATTN: Jason Alm

Garden City, KS 67846

Test Start: 2011.12.01 @ 00:58:26

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length: 4100.00 ft Diameter: Length:

0.00 ft Diameter: 119.00 ft Diameter:

2 Diameter:

3.80 inches Volume: 57.51 bbl 2.70 inches Volume: 2.25 inches Volume: Total Volume:

6.75 inches

0.00 bbl 0.59 bbl 58.10 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 65000.00 lb

Tool Chased 0.00 ft String Weight: Initial 61000.00 lb

Final 62000.00 lb

Drill Pipe Above KB: 5.00 ft Depth to Top Packer: 4242.00 ft

Depth to Bottom Packer: ft Interval between Packers: 23.00 ft Tool Length: 51.00 ft

Number of Packers:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4215.00		
Shut In Tool	5.00			4220.00		
Hydraulic tool	5.00			4225.00		
Jars	5.00			4230.00		
Safety Joint	2.00			4232.00		
Packer	5.00			4237.00	28.00	Bottom Of Top Packer
Packer	5.00			4242.00		
Stubb	1.00			4243.00		
Perforations	1.00			4244.00		
Recorder	0.00	8673	Inside	4244.00		
Recorder	0.00	8736	Outside	4244.00		
Perforations	18.00			4262.00		
Bullnose	3.00			4265.00	23.00	Bottom Packers & Anchor

Total Tool Length: 51.00

Printed: 2011.12.06 @ 08:45:43 Trilobite Testing, Inc Ref. No: 44698



**FLUID SUMMARY** 

American Warrior, Inc. 18-19s-21w Ness,KS

PO Box 399 Garden City, KS 67846 Adrienne #2-18

Job Ticket: 44698 **DST#:1** 

ATTN: Jason Alm Test Start: 2011.12.01 @ 00:58:26

**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: 27000 ppm

Viscosity: 43.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 6600.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

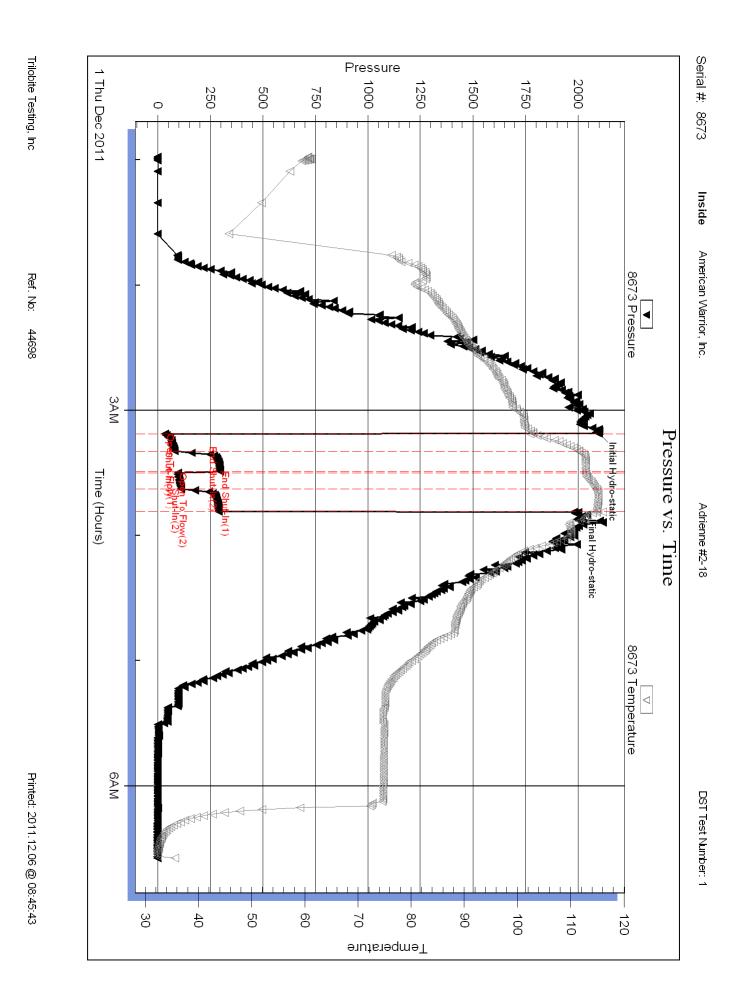
Length ft	Description	Volume bbl
180.00	GOCMW-20%G-25%O-50%W-5%M	1.441
50.00	HOCWM-40%O-20%W-40%M	0.701
0.00	300' Gas In Pipe	0.000

Total Length: 230.00 ft Total Volume: 2.142 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



Trilobite Testing, Inc

Ref No.

44698

Printed: 2011.12.06 @ 08:45:44



Prepared For: American Warrior, Inc.

PO Box 399

Garden City, KS 67846

ATTN: Jason Alm

#### Adrienne #2-18

#### 18-19s-21w Ness,KS

Start Date: 2011.12.01 @ 17:58:15

End Date: 2011.12.02 @ 02:11:30

Job Ticket #: 44699 DST #: 2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

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



American Warrior, Inc.

18-19s-21w Ness, KS

DST#:2

2210.00 ft (KB)

2205.00 ft (CF)

Adrienne #2-18

Reference ⊟evations:

PO Box 399

Garden City, KS 67846 Job Ticket: 44699

ATTN: Jason Alm Test Start: 2011.12.01 @ 17:58:15

**GENERAL INFORMATION:** 

Formation: Mississippi

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 20:48:00 Tester: Jason McLemore
Time Test Ended: 02:11:30 Unit No: 54

Interval: 4340.00 ft (KB) To 4348.00 ft (KB) (TVD)

Total Depth: 4348.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8673 Inside

Press@RunDepth: 42.06 psig @ 4342.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2011.12.01
 End Date:
 2011.12.02
 Last Calib.:
 2011.12.02

 Start Time:
 17:58:17
 End Time:
 02:11:30
 Time On Btm:
 2011.12.01 @ 20:47:30

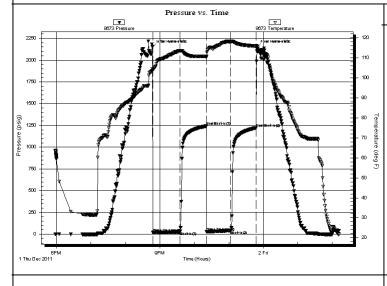
 Time Off Btm:
 2011.12.01 @ 23:49:00

TEST COMMENT: IFP-Weak, Built to 2-1/4"

ISI-Dead

FFP-Weak Built to 1-1/2"

FSI-Dead



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2148.67	104.42	Initial Hydro-static
1	20.53	103.81	Open To Flow (1)
48	28.54	113.58	Shut-In(1)
94	1242.02	110.73	End Shut-In(1)
94	29.67	110.36	Open To Flow (2)
136	42.06	118.15	Shut-In(2)
180	1222.05	115.92	End Shut-In(2)
182	2146.68	113.46	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)		
60.00	VSOCMW-5%O-60%W-35%M	0.30		
* Recovery from multiple tests				

#### Gas Rates

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



American Warrior, Inc.

18-19s-21w Ness, KS

PO Box 399

Adrienne #2-18
Job Ticket: 44699

DST#: 2

Garden City, KS 67846

JOD TICKEL 44099

Test Start: 2011.12.01 @ 17:58:15

ATTN: Jason Alm

GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:48:00 Time Test Ended: 02:11:30

Interval: 4340.00 ft (KB) To 4348.00 ft (KB) (TVD)

Total Depth: 4348.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Reference Elevations:

2210.00 ft (KB)

2205.00 ft (CF)

8000.00 psig

KB to GR/CF: 5.00 ft

Serial #: 8736 Outside

Press@RunDepth: psig @ 4342.00 ft (KB) Capacity:

Start Date: 2011.12.01 End Date: 2011.12.02 Last Calib.: 2011.12.02

Start Time: 17:57:50 End Time: 02:11:14 Time On Btm

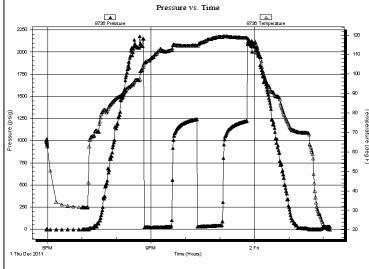
Time Off Btm:

TEST COMMENT: IFP-Weak, Built to 2-1/4"

ISI-Dead

FFP-Weak Built to 1-1/2"

FSI-Dead



PRESSURE SUMMARY
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-	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
	()	(23.9)	(5591)	
_				
emperat				
Temperature (deg F)				
ŋ				

#### Recovery

Length (ft)	Description	Volume (bbl)			
60.00	VSOCMW-5%O-60%W-35%M	0.30			
* Recovery from multiple tests					

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TOOL DIAGRAM** 

American Warrior, Inc.

18-19s-21w Ness, KS

PO Box 399

Adrienne #2-18
Job Ticket: 44699

DST#: 2

Garden City, KS 67846

ATTN: Jason Alm

Test Start: 2011.12.01 @ 17:58:15

Tool Information

Drill Collar:

Drill Pipe: Length: Heavy Wt. Pipe: Length:

Length: 4224.00 ft Diameter:
Length: 0.00 ft Diameter:
Length: 119.00 ft Diameter:

3.80 inches Volume: 59.25 bbl 2.70 inches Volume: 0.00 bbl 2.25 inches Volume: 0.59 bbl

Total Volume:

59.84 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 75000.00 lb

Drill Pipe Above KB: 31.00 ft
Depth to Top Packer: 4340.00 ft

Tool Chased 0.00 ft String Weight: Initial 60000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 8.00 ft

Final 60000.00 lb

Interval between Packers: 8.00 ft
Tool Length: 36.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4313.00		
Shut In Tool	5.00			4318.00		
Hydraulic tool	5.00			4323.00		
Jars	5.00			4328.00		
Safety Joint	2.00			4330.00		
Packer	5.00			4335.00	28.00	Bottom Of Top Packer
Packer	5.00			4340.00		
Stubb	1.00			4341.00		
Perforations	1.00			4342.00		
Recorder	0.00	8673	Inside	4342.00		
Recorder	0.00	8736	Outside	4342.00		
Perforations	3.00			4345.00		
Bullnose	3.00			4348.00	8.00	Bottom Packers & Anchor

Total Tool Length: 36.00



**FLUID SUMMARY** 

American Warrior, Inc. 18-19s-21w Ness,KS

PO Box 399 **Adrienne #2-18** 

Garden City, KS 67846 Job Ticket: 44699 **DST#:2** 

ATTN: Jason Alm Test Start: 2011.12.01 @ 17:58:15

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 31000 ppm

Viscosity: 57.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 7100.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

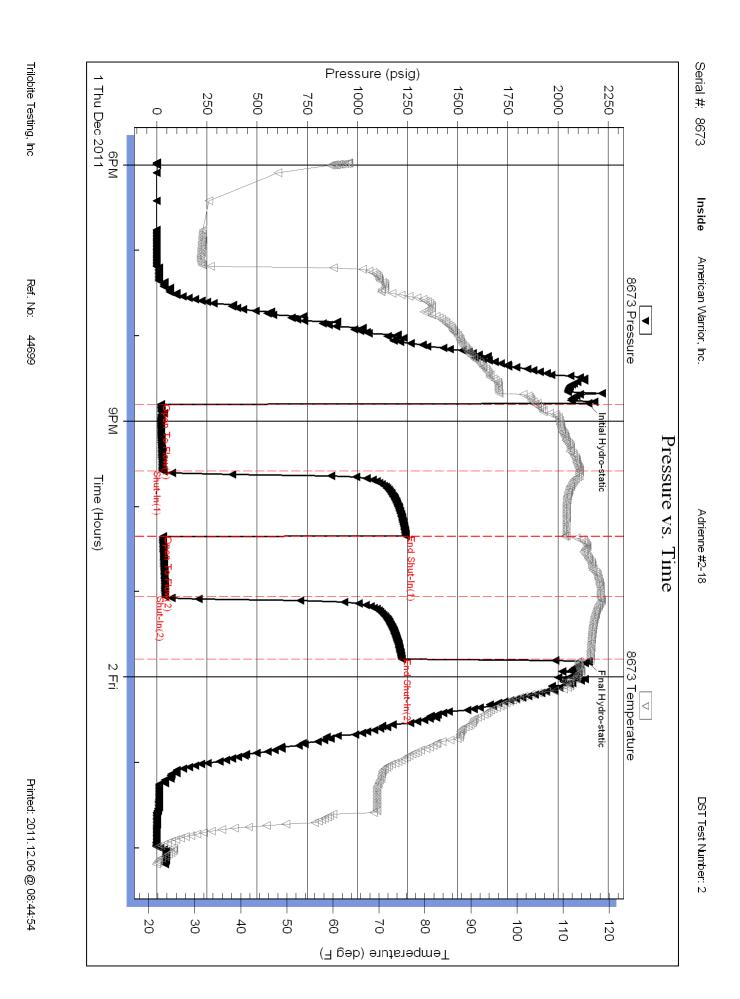
Length ft	Description	Volume bbl
60.00	VSOCMW-5%O-60%W-35%M	0.295

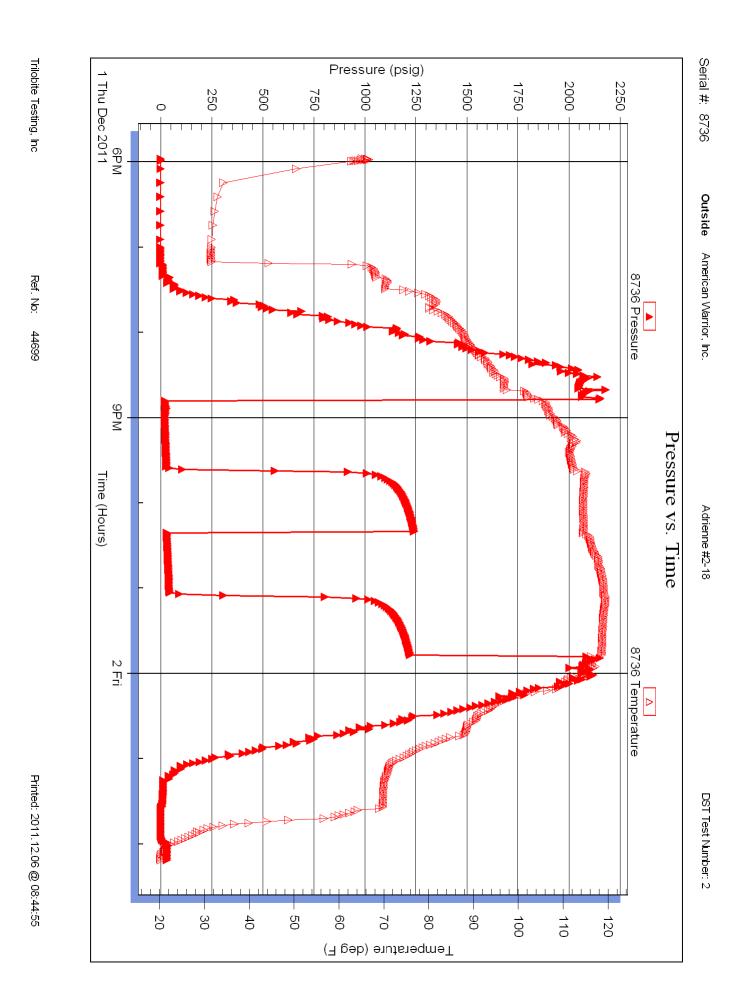
Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







# RILOBITE

DEC 0 2 2011 Test Ticket

No. 44698

e	ESTING INC.	DEG 0 12 2011
	PO Box 1733 • Havs	Kansas 6760

4/10	2 39	
Well Name & No. Adrienne #2-	(8 Test No.	Date 12-1-1)
Company American Warrior, In	c. Elevation 2	210 KB 2205 GL
Address PO Box 399, Garde	· City 115 6284	(le
Co. Rep/Geo. Jason Alm	Rig Pet	rs mark #1
Location: Sec. 18 Twp. 195	Rge. 2 (m Co. Ness	State KS
	Zone Tested Cherokee	Sand
Anchor Length 23'	Drill Pipe Run 4100	Mud Wt. 9 r 0
Top Packer Depth 4237	Drill Collars Run 119	Vis 43
Bottom Packer Depth 42 42	Wt. Pipe Run	WL
Total Depth 4265	Chlorides 6,600 ppm	System LCM_Trace
Blow Description IFP- Strong	BOB in 5 Min.	
ISI- 1" Blow	back	"
FFP- Strong, BC	Bin 6 min.	
FSI- 1/2" Blowb	ack	
RecFeet of		25 %oil 45 %water %mud
Rec 50 Feet of Hocum	%gas	10 %oil 20 %water 40 %mud
Rec 60 Feet of GOCMW		20 %oil 45 %water 10 %mud
Bec 120 Feet of GOCMW	15 %gas	30 <sub>%oil</sub> 50 <sub>%water</sub> 5 %mud
Rec Feet of 300′ 6.	TP %gas	%oil %water %mud
Rec Total BHT		ppm 35 °F Chlorides 27,000 ppm
(A) Initial Hydrostatic 2099	14 Test 1225	T-On Location 23:50
(B) First Initial Flow35	124 Jars 250	T-Started 2 9:3 9
(C) First Final Flow7 9	As Safety Joint 75	T-Open
(D) Initial Shut-In 297	☐ Circ Sub	T-Pulled 3 . 3 8
(E) Second Initial Flow	☐ Hourly Standby	T-Out <u>(p: 34</u>
(F) Second Final Flow / / /	118 rt 1105,20	Comments
(G) Final Shut-In 290	☐ Sampler	
(H) Final Hydrostatic 2000	☐ Straddle	Ruined Shale Packer
	☐ Shale Packer	
Initial Open5	Extra Packer	
Initial Shut-In/ O	☐ Extra Recorder	= Extra copico
Final Flow 7	Day Standby	Total 1715.70
Final Shut-In	□ Accessibility	16
	Sub Total 1715.20	MP/DST Disc't
Approved By	Our Representative	Clason Mi Jamon
Approved by	Our riepresentative_t	



# RILOBITE ESTING INC.

DEC 0 2 2011

#### Test Ticket

NO. 44699

BY:

P.O. Box 1733 • Hays, Kansas 67601

Well Name & No. Adrienne #2-	18	Test No	2	Date	-1(
Company American Warrior	Inc.	Elevation_=	2210	KB 220	5GL
Address Po Box 399, Cogra	len City, Ks.	67	846		-
Co. Rep/Geo. Jason Alm				tt (	
Location: Sec				State	Ks
Interval Tested 4340 - 4348	Zone Tested	ssissip	191		
Anchor Length 8	Drill Pipe Run			Mud Wt. 4,0	
Top Packer Depth 4333	Drill Collars Run	119		Vis5 7	
Bottom Packer Depth_ 4340	Wt. Pipe Run 🔘			WL 8,0	
Total Depth 4348	Chlorides _ 7/0	O pp		LCM Ø	
Blow Description IFP - Weak, Bui	1+ to 2 "14"			<i></i>	
ISI - Dead	0 11/	(1			
FFP- Weak Blow,	Suilt to 1/2				
FSI-Dead		A113		10	3 6
Rec 60 Feet of USOCMW		%gas	5 ‰il	60 %water	35 <sub>%mud</sub>
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of	<del></del>	%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
	GravityAPI	1			200
A) Initial Hydrostatic 2/9	7 Test 1225	-		ocation 17:4 ed 17:56	
B) First Initial Flow 2 (     C) First Final Flow 2 9	19 Jars 250			20:42	
10.110	Safety Joint 75		T-Pulled	23:42	
D) Initial Shut-In 12 92  E) Second Initial Flow 3 0	☐ Circ Sub		_ T-Out _	1 -	
F) Second Final Flow	Hourly Standby	11.621	Comme	ents	
G) Final Shut-In /222	Mileage 118 ct				
H) Final Hydrostatic 2147	□ Sampler		<del></del>		
ny i mai nyurostatic	□ Straddle			ned Shale Packer_	
nitial Open 45	☐ Shale Packer		<b>—</b> 11011	ned Packer	
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### **Geological Report**

American Warrior, Inc.

Adrienne #2-18
390' FSL & 450' FWL
Sec. 18 T19s R21w
Ness County, Kansas



American Warrior, Inc.

#### **General Data**

Well Data:	American Warrior, Inc.
	Adrienne #2-18

390' FSL & 450' FWL Sec. 18 T19s R21w Ness County, Kansas

API # 15-135-25310-0000

Drilling Contractor: Petromark Drilling, LLC Rig #1

Geologist: Jason Alm

Spud Date: November 24, 2011

Completion Date: December 2, 2011

Elevation: 2205' Ground Level

2211' Kelly Bushing

Directions: Bazine KS, South 3.5 mi. from south edge of town

East into location.

Casing: 223' 8 5/8" surface casing

4349' 5 1/2" production casing

Samples: 10' wet and dry, 3500' to RTD

Drilling Time: 3500' to RTD

Electric Logs: Log Tech, Inc. "Robert Barnhart"

CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Jason McLemore"

Problems: None

Remarks: None

#### **Formation Tops**

	American Warrior, Inc.
	Adrienne #2-18
	Sec. 18 T19s R21w
Formation	390' FSL & 450' FWL
Anhydrite	1443', +766
Base	1477', +734
Heebner	3692', -1481
Lansing	3740', -1529
BKc	4076', -1865
Pawnee	4155', -1944
Fort Scott	4230', -2019
Cherokee	4249', -2038
Mississippian	4316', -2105
Osage	4337', -2126
RTD	4348', -2137
LTD	4350', -2139

#### **Sample Zone Descriptions**

#### Cherokee Sand (4254', -2043): Covered in DST #1

Ss – Quartz, Clear, fine to medium grained, well to sub-rounded, fairly sorted, poorly cemented with fair to good inter-granular porosity, light to fair spotted oil stain in cluster, show of free oil, light odor, 32 units hotwire.

#### Mississippian Osage (4337', -2126): Covered in DST #2

Dolo –  $\Delta$  – Fine sucrosic crystalline with poor vuggy porosity, heavy slightly triptolitic chert with poor vuggy porosity, light scattered oil stain in porosity, slight show of free oil, light scattered yellow fluorescents.

#### **Drill Stem Tests**

Trilobite Testing Inc. "Jason McLemore"

#### DST #1 Cherokee Sand

Interval (4242' – 4265') Anchor Length 23'

IHP -2098#

IFP - 5" - B.O.B. 5 min. 34-79 #
ISI - 10" - Built to 1 in. 296 #
FFP - 7" - B.O.B. 6 min. 95-110 #
FSI - 10" - Built to 1 ½ in. 289 #

FHP - 1999 # BHT - 114°F

Recovery: 300' GIP

50' HOCWM 40% Oil, 20% Water 180' GOCMW 25% Oil, 50% Water

#### DST #2 <u>Mississippian Osage</u>

Interval (4340' – 4348') Anchor Length 8'

IHP - 2148 #

IFP - 45" - Built to 2 ¼ in.

ISI - 45" - Dead

FFP - 45" - Built to 2 in.

FSI - 45" - Dead

FNI - 45" - Dead

1222 #

FHP - 2146 #

BHT – 118°F

Recovery: 60' VSOCMW 5% Oil, 60% Water

#### **Structural Comparison**

	A	A XX7 Y		A	
	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Adrienne #2-18	Adrienne #1-18		Schaben #1-19	
	Sec. 18 T19s R21w	Sec. 18 T19s R21w		Sec. 19 T19s R21w	
Formation	390' FSL & 450' FWL	780' FSL & 330' FWL		800' FNL & 125' FWL	
Anhydrite	1443', +766	1439', +772	<b>(-6)</b>	1455', +773	<b>(-7)</b>
Base	1477', +734	1473', +738	<b>(-4)</b>	NA	NA
Heebner	3692', -1481	3685', -1474	<b>(-7)</b>	3706', -1478	(-3)
Lansing	3740', -1529	3732', -1521	<b>(-8)</b>	3754', -1526	(-3)
BKc	4076', -1865	NA	NA	NA	NA
Pawnee	4155', -1944	4148', -1937	<b>(-7)</b>	4172', -1944	$\mathbf{FL}$
Fort Scott	4230', -2019	4224', -2013	<b>(-6)</b>	4250', -2022	(+3)
Cherokee	4249', -2038	4242', -2031	<b>(-7)</b>	4270', -2042	<b>(+4)</b>
Mississippian	4316', -2105	4309', -2098	<b>(-7)</b>	NA	NA
Osage	4337', -2126	4324', -2113	(-13)	4345', -2117	<b>(-9</b> )

#### **Summary**

The location for the Adrienne #2-18 well was found via 3-D seismic survey. The new well ran structurally lower than expected via survey. Two drill stem tests were conducted one of which recovered commercial amounts of oil from the Cherokee Sand Formation. After all gathered data had been thoroughly examined the decision was made to run 5 ½ inch production casing to further evaluate the Adrienne #2-18 well.

#### **Recommended Perforations**

Cherokee Sand (4254' – 4260') DST #1

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.  Jason Alm Petroleum Geologist P.O. Box 1260 Hays, KS 67601  APT# 15-135-25310-0000	DATE GOTTII NO SCIE NASE TAPE GOTTI	PEST PESSES  No. Industrial PEP/Time PSEP/Time PSEP/Time DINI-FIRM PSESSMENT  PERSONNELL STEM TESTS  NO. Industrial PEP/Time PSEP/Time DINI-FIRM PSESSMENT  PERSONNELL STEM TESTS  PERSONNELL STEM TESTS	DST# 1  Start   Start	59,05,65% Water Spect fully,
OPERATOR American Warrior, Inc.  LEASE Adrienne WELL NO. Z-18  FIELD Schaben  LOCATION 390' FSL & 450' FWL  SEC. 18 TWP. 195 RGE 21 W  COUNTY Ness STATE Kansas  CASING RECORD  SURFACE 898' 223'	FORMARON SERVING ST SOLV		SAMPLE DESCRIPTIONS  THE Co. 1 COLD CO.  THE C	81. 510, Lt. 510t. Pel.
COMM: 11-24-2011 COMP: 12-Z-2011 RTD 4348' LOG TD 4350' SAMPLES SAVED FROM 3500' TO RTD  DRILLING TIME KEPT FROM 3500' TO RTD  GEOLOGICAL SUPERASION FROM 3700' TO RTD  MUD UP 3400' TYPE MUD Chemical  FORMATION TOP DATUM TOP DATUM COMP.  Anhydrite 1443' + 766 1444' + 767 Base 1477' + 734 1476' + 735 T195 R21W  TOP DATUM TOP D		The location for the Adrience # Z-18 was	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13.48 - 213.2 13.48 - 213.2 14.48 - 213.2 14
Heebner 3692'-1481 3690'-1479 Lansing 3740'-1529 3736'-1525 BKc 4076'-1865 4074'-1863 Pawnee 4155'-1944 4152'-1941 Fort Scott 4230'-2019 4226'-2015 Cherokee 4249'-2038 4245'-2034 Mississippian 4316'-2105 4316'-2105 Osage 4337'-2126 4335'-2124 Total Depth 4350'-2139 4348'-2137		found via 3-D seismic survey. The new well ran structurelly lower than expected via the survey. Two clrill stem tests were conclusted, one of which recovered commercial amounts of oil from the Cherokee Sonal Formation. After all sathered data had been examined the decision was made to run S'z inch production casing to further evolute the Adrienne # 2-18 well.  Respectfully Submittali		
REFRENCE WELL FOR STRUCTURAL COMPARISON American Warrior, Inc. Adricane #1-18 780'FSL:330'FWL Sec. 18 T19 s RZ/w	53	Jaton T fl 12-4-2011 *194 2011 907		

MILLER PRINTERS, INC. - Great Band, KS

# CEMENTING LOG

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## ALLIED CEMENTING CO

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CITY, STATE, ZIP CODE

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SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

APPROVAL

Thank You!



# TICKET CONTINUATION

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SWIFT Services, Inc.

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				OUT DELAY?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.	AGENT PRIOR TO	NTY provisions.	LIMITED WARRANTY provisions  MUST BE SIGNED BY CUSTOMER OR CUSTOM
			$\frac{1}{1}$	AND	WE UNDERSTOOD AND		but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	to, PAYMENT, RELE	but are not limited
432)	PAGE TOTAL	DECIDED AGREE	AGREE DEC		OUR EQUIPMENT PER	REMIT PAYMENT TO:	<b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	Sustomer hereby ackritions on the reverse s	the terms and cond
-									
2508	3500	173.84 Tm	<del>_</del>	17384 1/4		MINIMUM TRAYAGE			832
3508	88 C	_		175 Sx		SEAVICE CHARGE VENTENT			581
216881	10 pg			115 SX		SWETMULT DEWSITY			330
	(,A-1)	-		-   "					
52159	35/2		1	)'S  @		DAIR		;	290
(O) 188	නු <b>න</b>			30/16		FLIXETE			276
350	35() 92			1 Jas		PORT COMAR OPENING TOOL			108
		_							
\$05B	1250pg			80 / Too		Pamp CHARGE			5760
(S) (S)	39			20mu	-	MILEAGE \$ //			575
AMOUNT	UNIT	M.U	any.	QTY. UM		DESCRIPTION	LOC ACCT DF	SECONDARY REFERENCE	PRICE
	`						INVOICE INSTRUCTIONS	INVOICE	NEI ENGOL LOCALION
TUTE	ASET POCULION	7 WEL		WELL PERMIT NO.	LAR	EVELIAMEN CEMENT PORT ()	7	<b>(</b>	A.
	ORDER NO.	ORD	,	DELIVERED TO	VIA VIA	OILFIELD SERU RIGNAMENO.	H J OIG	TICKET TYPE  SERVICE  SALES	٠٠ ج
EX	DEC   OWNER	9	E.KS	BAZINE	大 STATE	OR LENNE 2-18	NO.	K	SERVICE LOCATIONS
OF	PAGE 1					CODE	CITY, STA	S,	Serv

SWIFT OPERATOR

APPROVAL

Thank You!

JOB LOG
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SWIFT Services, Inc.

DATETOR

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CUSTOMER CHOSER	ALV LADI.	WELL NO.	WELL NO.			NNE.	2-18 CEMENT PORTCOLLAR TICKET NO. 22544		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	VOLUME PUMPS (BBL) (GAL) T C			E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS	
	5750					Ŷ,		ON LOCATION	
					,			PORTCOURR @ 1396	
	0841				7		/800	TEST HELD	
	D2413	3			1		400	OPEN PORT COLLAR TOKE INJECTION ROTE	
	3848	4	64	7		600		MIX 1155x SMD.	
		3	42	7		300		DISPLACE CEMENT	
								CIRCULATE 205x TO PIT	
	5907			7		1000		CLOSE PORT COVIAR TEST HELD	
-								RUN 4 JIS.	
	918	35	15				300	REVERSE CEMENT OUT	
	0920							WASH TRUCK	
7	10.150								
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.,								9.	
	0945	-						JOB Complete	
	7, 13			<b>†</b>			<b></b>	1000	
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			<u> </u>					THAUKS \$ 110	
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