## Kansas Corporation Commission Oil & Gas Conservation Division

# ORIGINAL

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 #4058	API No. 15 - 083-21, 675 - 0000
Name: American Warrior, Inc	Spot Description: SW-NW-NE-NE
Address 1: P O Box 399	SW_NW_NE_NE_Sec11 Twp21 S. R25 East  West
Address 2:	
City: Garden City State: KS Zip: 67846 +	1,100 Feet from East / West Line of Section
Contact Person: Kevin Wiles, Sr	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 620 ) 275-2963	✓ NE □NW □SE □SW
in the second of	County: Hodgeman
CONTRACTOR: License # _5929  Name: Duke Drilling Co NOV 1 2 2010	Lease Name: Nuss Well #: 3-11
Ivalio.	Field Name: Stairett
Wellsite Geologist: Jason Alm  Rurchaser: N/A  KCC WICHITA	
Purchaser: N/A NOC VVICITIA	Producing Formation: Mississippi
Designate Type of Completion:	Elevation: Ground: 2321' Kelly Bushing: 2332'
✓ New Well	Total Depth: 4538' Plug Back Total Depth: 4504'
☑ oil □ wsw □ swd □ slow	Amount of Surface Pipe Set and Cemented at: 218 Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used?   ✓ Yes   No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: 1524 Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: Surface
Cathodic Other (Core, Expl., etc.):	feet depth to: 1524' w/ 120 sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 19,200 ppm Fluid volume: 103 bbls
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Dewatering method used: EVAPORATION
Conv. to GSW	Dewatering method osed.
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 #:	Quarter Sec TwpS. R
ENHR Permit #:	County: Permit #:
GSW Permit #:	County.
10/7/10         10/13/10         11/9/10           Spud Date or         Date Reached TD         Completion Date or	
Recompletion Date Recompletion Date	
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workover or confision of this form will be held confidential for a period of 12 months if requiality in excess of 12 months). One copy of all wireline logs and geologist we BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for	unversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information uested in writing and submitted with the form (see rule 82-3-107 for confidentifications) is report shall be attached with this form. ALL CEMENTING TICKETS MUST
	KCC Office Use ONLY
AFFIDAVIT  I am the affiant and I hereby certify that all requirements of the statutes, rules and r	equ-
lations promulgated to regulate the oil and gas industry have been fully complied	with Letter of Confidentiality Received
and the statements herein are complete and correct to the best of my knowledg	e. Date:
11.1 1 · //	Wireline Log Received
Signature: Luenfor	Geologist Report Received
Title: Geologist Date: 11/10/10	UIC Distribution
	ALT I XII III Approved by: Dig Date:

Operator Name: Ar	<u>nerican Warrior</u>	, Inc		Lease	Name: _	Nuss		Well #:	3-11	
Sec. 11 Twp.2	1s. R. <u>25</u>		st 🗹 West	County	y: Hode	geman				
INSTRUCTIONS: S time tool open and c recovery, and flow ra line Logs surveyed.	losed, flowing and tes if gas to surfac	shut-in pres: e test, along	sures, whether s with final chart(	hut-in pres	sure rea	ched static level,	hydrostatic p	ressures, bottor	n hole tem	perature, fluid
Drill Stem Tests Take		✓	res No		<b></b> ✓L	og Formation	n (Top), Depti	n and Datum		Sample
(Attach Additional Samples Sent to Geo	·		∕es ✓ No		Nam Stone	e Corral		Top 1583'		Datum 749
Cores Taken					Base	Stone Corral		1625'	+	707
Electric Log Run	d Electronicality		_		Heebr	ier		3770'	-1	1438
Electric Log Submitte (If no, Submit Cop	•		ies [] 140		Lansir	ıg		3812'	-1	1480
List All E. Lana Book					Base	Kansas City		4177'	-1	1845
List All E. Logs Run: DIL, MIL, DC/	DI				Chero	kee		4364'	-2	2032
DIL, MIL, DC/	r L				Missis	sippi		4443'	-2	2111
			CASING	RECORD	✓ Ne	w Used				
		Rep	ort all strings set-	conductor, si	_	ermediate, producti	on, etc.			
Purpose of String	Size Hole Drilled		ize Casing et (In O.D.)	Wei Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent Additives
Surface	12-1/4"	8-5/8"		24#		218'	Common	150	2%gel	3%cc
Production	8-7/8"	5-1/2"		15.5#		4529'	EA-2	125	Flocel	e
		<u> </u>		<u> </u>		,				
	<del></del>	1	ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD				
Purpose:  ✓ Perforate	Depth Top Bottom	Тур	e of Cement	# Sacks	SUsed		Туре а	and Percent Addition	/es 	
Protect Casing Plug Back TD Plug Off Zone	4470'-4471'	Comm	on	50			·			
				<u> </u>		J				
Shots Per Foot			RD - Bridge Plug Each Interval Per			1		ment Squeeze Re of Material Used)	cord	Depth
4	4470'-4471'		RECEIV	'FD		Squeeze 50	sks Commo	on		Same
4	4454'-4460'		NAU A	2010		250 Gal 20%	MCA	<del></del>		Same
			NOV 1 2	2010					*****	
			KCC WIC	CHITA						
TUBING RECORD:	Size:	Set A	 ::	Packer A	nt:	Liner Run:				
:	2-3/8"	4525'		4422'			Yes _	] No		
Date of First, Resumed N/A	Production, SWD or	ENHR.	Producing Meta	nod: Pumpir	ng 🗌	Gas Lift C	other (Explain) _	•		
Estimated Production Per 24 Hours	Oil N/A	Bbls.	Gas N/A	Mcf	Wat	er B N/A	bls.	Gas-Oil Ratio		Gravity
Diopositi	ON OF CAS:			METHOD OF	COMPL	ETION:	<del></del>	PRODUC	TION INTER	RVAL:
	ON OF GAS:	_   _		Perf.						
Vented Sold	d ✓ Used on Lea bmit ACO-18.)	*   _	Other (Specify)		(Submit		mit ACO-4)			
,		, ,	(Opoony)							

# ALLIED CEMENTING CO., LLC. 041959

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	DRIVER			- HANDLING	150	@ 2.25	3,77,00
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done to satisfact	ion and s	upervision	of owner agent of	Γ		TOTA	ــــــــــــــــــــــــــــــــــــــ
contractor. I have	e read ar	nd underst	and the "GENERA	AL SALES TAX	( (If Any)		<u> </u>
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SWIFT OPERATOR

CHARGE TO:	American	Unition	
ADDRESS			#
CITY, STATE, ZIP CO			· · ·

TICKET 19061

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Thank You!

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APPROVAL

1836- holl



PO Box 466 Ness City, KS 67560

# **TICKET CONTINUATION**

TICKET 19061

Service	o. Inc.	Ness City Off: 785	, KS 67560 5-798-2300		CUSTOMER AVALLY COL	Ubrrior	WELL		3-11		DATE / Y DCT	10	PAGE OF	2
PRICE REFERENCE	SECONDARY REFER PART NUMBE	RENCE/	CCOUNTING DE	TIME	DESCRI						Z. FUNITAL PRICE		-AMOUNT	William annual Company
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					C. C.				c	ONTINI	ATIONTOTAL	11881	4557	.50
	*													

SWIFT Services, Inc.

DATE PAGENO

USTOMER	<u> </u>	Warring	WELL NO.	3-	 ) (	LEASE			JOBTYPE Jung String	TICKET NO.
CHART NO.	TIME	RATE (BPM)	VOLUME	PU	MPS	PRE	SSURE (P	SI)	DESCRIPTION OF OPERATIO	
NU.	1	(BPM)	(BBL) (GAL)	<u> </u>	c	TUBING	G C	ASING	175 sts & A+2 w/ 1	
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# **Geological Report**

American Warrior Inc.

Nuss #3-11
335' FNL & 1100' FEL
Sec. 11 T21s R25w
Hodgeman County, Kansas



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American Warrior, Inc.

#### General Data

Well Data:

American Warrior, Inc.

Nuss #3-11

335' FNL & 1100' FEL Sec. 11 T21s R25w Hodgeman County, Kansas API # 15-083-21675-0000

Drilling Contractor:

Duke Drilling Co. Rig #5

Geologist:

Jason Alm, Harley Sayles

Spud Date:

October 5, 2010

Completion Date:

October 13, 2010

Elevation:

2321' Ground Level 2332' Kelly Bushing

Directions:

Jetmore KS, North on Hwy 283 to X rd. West on X

rd 8 mi. South into location

Casing:

220' 8 5/8" 23# surface casing with 150 sacks

4539' 5 1/2" 15.5# production casing with 125

sacks EA-2

Samples:

10' wet and dry, 3700' to RTD

Drilling Time:

3600' to RTD

Electric Logs:

Dual Induction, Microresistivity, Dual

Compensated Porosity

Drillstem Tests:

One, Trilobite Testing, Inc. "Dan Bangle"

Problems:

None

Remarks:

An 11.5% drop in shut-in pressures was noted.

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# **Formation Tops**

	American Warrior, Inc.
	Nuss #3-11
	Sec. 11 T21s R25w
Formation	335' FNL & 1100' FEL
Anhydrite	1583', +749
Base	1625', +707
Heebner	3770', -1438
Lansing	3812', -1480
Stark	4080', -1748
BKc	4177', -1845
Marmaton	4200', -1868
Pawnee	4293', -1961
Fort Scott	4340', -2008
Cherokee	4364', -2032
Mississippian	4443', -2111
Osage	4540', -2208
RTD	4487', -2132

# Sample Zone Descriptions

Mississippian Warsaw

(4443', -2111): Covered in DST #1
Dolo – Off white, fine crystalline with poor intercrystalline and poor to fair vuggy porosity, fair to good oil
stain with scattered light saturation, fair show of free oil,

light odor, fair yellow fluorescence.

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### **Drill Stem Tests**

Trilobite Testing Inc. "Dan Bangle"

## DST #1 <u>Mississippian Warsaw</u>

Interval (4454' – 4467') Anchor Length 13'

IHP - 2318 #

IFP -45" - Built to 4 in. 22-61 #
ISI -45" - 907 #
FFP -45" - Weak steady surface blow 66-90 #
FSI -45" - 802 #

FHP - 2229 # BHT - 121°F

Recovery:

130' CO

60' HOCM

40% Oil

# **Structural Comparison**

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Nuss #3-11	Grass C #1		Nuss #2-11	
	Sec. 11 T21s R25w	Sec. 11 T21s R25w		Sec. 11 T21s R25w	
Formation	335' FNL & 1100' FEL	3040' FSL & 2230' FEL		1300' FSL & 335' FEL	L
Anhydrite	1583', +749	1560', +746	(+3)	1552', +758	(-9)
Base	1625', +707	1600', +706	(+1)	1592', +718	(-11)
Heebner	3770', -1438	3748', -1442	(+4)	3736', -1426	(-12)
Lansing	3812', -1480	3792', -1486	(+6)	3778', -1468	(-12)
Stark	4080', -1748	4101', -1795	(+47)	4050', -1740	(-8)
BKc	4177', -1845	4182', -1876	(+31)	4146', -1836	(-9)
Marmaton	4200', -1868	4204', -1898	(+30)	4167', -1857	(-11)
Pawnee	4293', -1961	4279', -1973	(+12)	4260', -1950	(-11)
Fort Scott	4340', -2008	4319', -2013	(+5)	4307', -1997	(-11)
Cherokee	4364', -2032	4343', -2037	(+5)	4330', -2020	(-12)
Mississippian	4443', -2111	4422', -2116	(+5)	4410', -2100	(-11)
RTD	4540', -2208	4438', -2132		4484', -2174	, , , ,

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# **Summary**

The location for the Nuss #3-11 well was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Warsaw Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Nuss #3-11 well.

## **Recommended Perforations**

Mississippian: (4454' – 4460') DST #1

Perf and Squeeze: (4470' – 4471')

Respectfully Submitted,

NOV 1 2 2010

Harley K. Sayles KCC WICHITA
American Warrior Inc.



#### DRILL STEM TEST REPORT

American Warrior Inc

Nuss # 3-11

Box 399

11-21-25-Hodgman-Ks

Garden City Ks 67846

Job Ticket: 040365

DST#: 1

ATTN: Cecil O'Brate

Test Start: 2010.10.12 @ 22:37:36

#### **GENERAL INFORMATION:**

Formation:

Miss

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Time Tool Opened: 00:32:36

Time Test Ended: 05:34:51

Tester:

Dan Bangle

Unit No:

32

interval: Total Depth: 4454.00 ft (KB) To 4467.00 ft (KB) (TVD)

Reference Elevations:

ft (KB)

4467.00 ft (KB) (TVD)

ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Good

KB to GR/CF:

ft

Serial #: 8354

Press@RunDepth:

90.97 psig @

ft (KB)

2010.10.13

Capacity: Last Calib .: 8000.00 psig

Start Date: Start Time:

2010.10.12 22:37:37

End Date: End Time:

05:34:51

Time On Btm:

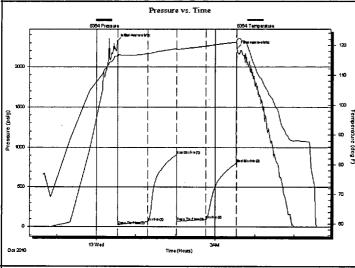
2010.10.13 2010.10.13 @ 00:31:51

Time Off Btm:

2010.10.13 @ 03:33:06

TEST COMMENT: IF-Weak building to 4"

FF-Weak steady surface blow



	l	• •		00
	Time	Pressure	Temp	Annotation
0	(Min.)	(psig)	(deg F)	
	0	2318.99	116.58	Initial Hydro-static
0	1	22.10	115.92	Open To Flow (1)
	47	61.83	117.19	Shut-In(1)
۰ -	90	907.75	118.85	End Shut-In(1)
Temperature (deg F)	90	66.57	118.52	Open To Flow (2)
rature	135	90.97	119.69	Shut-In(2)
(deg	180	802.40	121.01	End Shut-In(2)
J	182	2229.09	121.96	Final Hydro-static
'				
'				

PRESSURE SUMMARY

#### Recovery

Description	Volume (bbl)
H OCM 40% o 60% m	0.30
$\infty$	0.64
· · · · · · · · · · · · · · · · · · ·	
	H OCM 40% o 60%m

	G	as	· r	tai	es					
_				-	1_			7	_	_

Choke (inches) Pressure (psig)

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Ref. No: 040365

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#### DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior Inc

Nuss # 3-11

Box 399

11-21-25-Hodgman-Ks

Garden City Ks 67846

Job Ticket: 040365

DST#: 1

ATTN: Cecil O'Brate

Test Start: 2010.10.12 @ 22:37:36

#### **Mud and Cushion Information**

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type: Cushion Length: Oil API:

34 deg API

Mud Weight: Viscosity:

58.00 sec/qt

Cushion Volume:

Water Salinity:

ppm

Water Loss:

10.39 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

ft

bbl

Resistivity: Salinity:

Filter Cake:

ohm.m 5000.00 ppm

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl	
60.00	H OCM 40% o 60% m	0.295	
130.00	CO	0.639	

Total Length:

190.00 ft

Total Volume:

0.934 bbl

Num Fluid Samples: 0

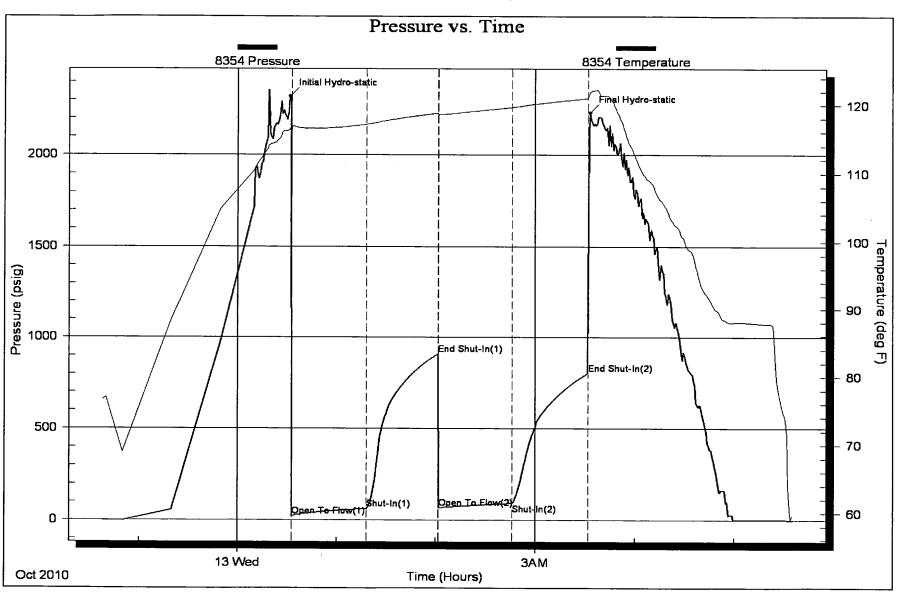
Num Gas Bombs: 0 Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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