# ORIGINAL

# Kansas Corporation Commission Oil & Gas Conservation Division

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 # 4058	API No. 15 - 159-22,647-00-00
Name: American Warrior INC	Spot Description: NW, sec 18-19s-9w
Address 1: P.O.box 399	SW_NE_SE_NW Sec. 18 Twp. 19 S. R. 9 ☐ East  West
Address 2:	
City: Garden City State: KS Zip: 67846 +	2,191
Contact Person: Kevin Wiles SR	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 620 ) 275-2963	□ NE ☑ NW □ SE □ SW
CONTRACTOR: License #5929	County: Rice
Name: Duke drilling	Lease Name: Buckley Well #: 6-18
Wellsite Geologist: Jamer Musgrove	Field Name: Chase-silica
Purchaser: NCRA	Producing Formation: Arbuckle
Designate Type of Completion:	Elevation: Ground: 1738 Kelly Bushing: 1746
	Total Depth: 3400 Plug Back Total Depth: 3366
	Amount of Surface Pipe Set and Cemented at: 347 Feet
✓ Oil	er en
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW ☐ Temp. Abd.	Multiple Stage Cementing Collar Used?
☐ OG ☐ ☐ GSW ☐ Temp. Abd. ☐ CM (Coal Bed Methane)	If yes, show depth set: Feet
Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to:w/sx cmt.
Operator:	
Well Name:	Drilling Fluid Management Plan
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: 12,000 ppm Fluid volume: 320 bbls
Conv. to GSW	Dewatering method used: Evaporation
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 East West
ENHR Permit #:	· · · · · · · · · · · · · · · · · · ·
GSW Permit #:	County: Permit #:
<u>4-13-11</u>	
Spud Date or Recompletion Date  Date Reached TD  Recompletion Date  Completion Date or Recompletion Date	. •
INSTRUCTIONS: An original and two copies of this form shall be filed with a Kansas 67202, within 120 days of the spud date, recompletion, workover or copies of side two of this form will be held confidential for a period of 12 months if requitiality in excess of 12 months). One copy of all wireline logs and geologist well BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form	nversion 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 confiden- I report shall be attached with this form. ALL CEMENTING TICKETS MUST
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and re	- Latter of Confidentiality Descripted (NEVint V Inter
lations promulgated to regulate the oil and gas industry have been fully complied and the statements herein are complete and correct to the best of my knowledge.	with Date:
South and the south of the sout	Confidential Release Date: AUC 1   ZUII
Signature: 11/1	<ul> <li>✓ Wireline Log Received</li> <li>✓ Geologist Report Received</li> </ul> ★CC WICHITA
Broduction Sunt 9 10 11	UIC Distribution
Title: Production Supt. Date: 0-10-11	ALT VI 1 II Approved by: Dog Date: 8/16/11

Operator Name: Am	Lease Name: Buckley Well #:6-18									
Sec. 18 Twp. 19	s. R. <u>9</u>	☐ East ✓ West	County	: Rice						
time tool open and cl	osed, flowing and shu tes if gas to surface to	nd base of formations per ut-in pressures, whether s est, along with final charte I well site report.	shut-in press	sure rea	ched static level	, hydrostatic pres	sures, bottom l	hole temp	perature, fluid	
Drill Stem Tests Take		✓ Yes  No		✓ Log Formation (To			(Top), Depth and Datum			
Samples Sent to Geo	,	☐ Yes 🗸 No	•	Nam Heebr			Тор 2775		Datum 1029	
Cores Taken	,	☐ Yes ☑ No		Toront			2796		1050	
Electric Log Run Electric Log Submitte	ed Electronically	✓ Yes No ✓ Yes No		Lansir	nġ		2925	-1	1179	
(If no, Submit Cop				CONC	GL.		3240	-1	1494	
List All E. Logs Run: DIL, CNDL, M	licro,		ARB.			3268	-1	1522		
		CASING	RECORD	✓ N	ew Used					
	0:	Report all strings set-			·   · · · · · · · · · · · · · · · · · ·		: # Cooks	Tuna	and Darsont	
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent Additives	
Surface	12-1/4"	8-5/8	23		347	common	250	3%cc/	2%gel	
Production	7-7/8"	5-1/2	14		3399	EA-2	130	1/4# fl	ocele	
	·	ADDITIONA	L CEMENTII	NG / SQI	JEEZE RECORD	)				
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks	Used	Percent Additives	5				
Protect Casing Plug Back TD Plug Off Zone										
Plug Oil Zoile										
Shots Per Foot		ION RECORD - Bridge Plu Footage of Each Interval Pe			1 /4	acture, Shot, Ceme Amount and Kind of M		rd	Depth	
4	3268'-3270'			500 gals 2-% MCA					Same	
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TUBING RECORD:	Size: ` 2-3/8"	Set At: 3350	Packer A None	it:	Liner Run:	☐ Yes 📝 N	0			
Date of First, Resumed	Production, SWD or EN	NHR. Producing Me	thod:  Pumpin	ıg	Gas Lift	Other (Explain)				
Estimated Production Per 24 Hours	Oil SI	Bbls. Gas	Mcf	Wa	ler E	Bbls.	Gas-Oil Ratio	·	Gravity	
								REC	EIVEN	
	ION OF GAS:		METHOD OF  Perf.			mmingled	PRODUCTI 3268'-3270	ON INTER	NAL:	
	Vented Sold V Used on Lease Submit ACO-18.) Open Hole Peri. Submit ACO-5 (Submit ACO-4)  (If vented, Submit ACO-18.) Other (Specify)									

# ALLIED CEMENTING CO., LLC. 038793

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DATE 4-13-11   SEC   TWP.   195	RANGE 9W	CALLED OUT	ON LOCATION	JOB START				
LEASE Bredley WELL# G-18 1	OCATION Cha	sexs 4n 2w	- 51.da	COUNTY	STATE			
OLD OR NEW (Circle one)	SOUTH ON CONT	seas in rew	0,00,10	<u> </u>	<del></del>			
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CONTRACTOR MADERA (Jacob	<u>~</u>	OWNER Am	even war	or	,			
TYPE OF JOB Surface								
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TUBING SIZE DEPT DRILL PIPE DEPT		<del></del>		· · · · · · · · · · · · · · · · · · ·	<del></del>			
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PERFS.		CHLORIDE	9	@ 53.20				
DISPLACEMENT 2/ bbl Bosch was	der	ASC		@				
EQUIPMENT				_ @	· <del>- · · · · · · · · · · · · · · · · · ·</del>			
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BULK TRUCK				KCC WICH	ITA			
# 341 DRIVER DELLA	$\omega$ .			@	, « <u>* * * * * * * * * * * * * * * * * * *</u>			
BULK TRUCK # DRIVER								
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		PUMP TRUCK EXTRA FOOTA		@ • 9 <i>5</i>	5.00 44.65			
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and furnish cementer and helper(s) to a	iung equipment			_				
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P.O. BOX 466 NESS CITY, KS 67560

785-798-2300

PERFORMED WITHOUT DELAY?

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AND PERFORMED JOB
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ARE YOU SAYISFIED WITH OUR SERVICE?

LT YES

NO TOTAL CUSTOMER OID NOT WASH TO RESPOND

Thank You!

USTOMER			WELL NO.			LEASE	Servi	CCO, INC. DATE 4-19-1/ PAG
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# TICKET CONTINUATION

No. 19477

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#### JAMES C. MUSGROVE

Petroleum Geologist 212 Main Street P.O. Box 215 Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.
Buckley#6-18
SW-NE-SE (1724' FNL & 2191' FWL)
Section 18-19s-9w
Rice County, Kansas
Page 1

# 5 1/2" Production Casing Set

**Contractor:** 

Duke Drilling Company (Rig #8)

Commenced:

April 13, 2011

Completed:

April 18, 2011

Elevation:

1746' K.B; 1744 D.F; 1738' G.L.

NECEIVED

Casing program:

Surface; 8 5/8" @ 347'

Production; 5 1/2" @ 3399'

KCC MAN

Sample:

Samples saved and examined 2700' to the Rotary Total Depth.

**Drilling time:** 

One (1) foot drilling time recorded and kept 2700 ft to the Rotary Total

Depth.

Measurements:

All depths measured from the Kelly Bushing.

**Drill Stem Tests:** 

There were three (3) Drill Stem Tests ran by Trilobite Testing.

**Electric Log:** 

By Log Tech; Dual Induction, Dual Compensated Porosity and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	392	+1354
Base Anhydrite	409	+1337
Heebner	2775	-1029
Toronto	2796	-1050
Douglas	2810	-1064
Brown Lime	2900	-1154
Lansing	2925	-1179
Base Kansas City	3218	-1472
Conglomerate	3240	-1494
Arbuckle	3268	-1522
Rotary Total Depth	3400	-1654
Log Total Depth	3379	-1653
/ 11 4	a manager of the Claration I was	

(All tops and zones corrected to Electric Log measurements).

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

## **TOPEKA SECTION**

2727-2736'

Limestone; tan, white and gray, finely crystalline, scattered

pinpoint and vuggy type porosity, no shows.

### **TORONTO SECTION**

2796-2808'

Limestone; white and gray, chalky, (dense).

American Warrior Inc.
Buckley#6-18
SW-NE-SE (1724' FNL & 2191' FWL)
Section 18-19s-9w
Rice County, Kansas
Page 2

### **DOUGLAS SECTION**

2810-2824'

Sand; very fine grained, lime green, calcareous, friable, fair porosity, light brown stain, no show of free oil and no odor in fresh samples, trace gas bubbles when samples broken.

#### **LANSING SECTION**

2925-2940' Limestone; tan, fossiliferous, chalky, poor porosity, trace stain,

no show of free oil and questionable odor in fresh samples.

2948-2956' Limestone; tan, gray, fossiliferous/oolitic, few sub oomoldic,

poorly developed porosity, no shows.

Limestone; gray, oolitic, chalky, poor porosity, no shows.

2969-2980' Limestone; gray, oolitic/fossiliferous, chalky, trace poor brown

stain, no show of free oil and no odor in fresh samples.

2983-2988' Limestone; as above, no shows.

3006-3020' Limestone; tan, gray, oomoldic, good oomoldic porosity, fair stain \*

and saturation, fair show of free oil and good odor in fresh

samples (100 unit gas kick).

3020-3045' Limestone; as above, fair to good stain and saturation, show of

free oil and good odor in fresh samples.

Drill Stem Test #1 3004-3045' RECEIVED

Alig 1 1 2011

Times: 30-30-45-60

KCC WICHITA

Blow: Strong

Recovery: 780' gas in pipe 180' oil and gas cut muddy water

(5% oil, 15% gas, 30% water, 50% mud)

420' water

Pressures: ISIP 786 psi

FSIP 786 psi IFP 61-176 psi FFP 203-310 psi HSH 1440-1353 psi

3072-3084' Limestone; white/cream, oomoldic, fair oomoldic porosity,

questionable stain, no show of free oil and faint odor in fresh

samples.

3092-3100' Limestone; gray, fossiliferous/oolitic, poor visible porosity, no

shows.

3116-3130' Limestone; gray and white, oomoldic, fair to good oomoldic

porosity, trace stain, no show of free oil and no odor.

3148-3152' Limestone; gray, fossiliferous/oolitic, poor visible porosity, trace

light brown stain, trace of free oil (poor) and questionable odor in

fresh samples.

3181-3190' Limestone; gray, white, oolitic, dense, trace black stain, no show

of free oil and no odor in fresh samples.

American Warrior Inc. Buckley#6-18 SW-NE-SE (1724' FNL & 2191' FWL) Section 18-19s-9w Rice County, Kansas Page 3

### **CONGLOMERATE SECTION**

3240-3267

Varied colored shale, plus maroon tinted chalky limestone and

white and orange boney chert.

### **ARBUCKLE SECTION**

3268-3276'

Dolomite; white/gray and tan, sucrosic, fair pinpoint porosity, fair stain and saturation, show of free oil and good odor in fresh samples.

**Drill Stem Test #2** 

3214-3276'

Times:

30-30-60-45

Blow:

Fair

Recovery:

120' gas in pipe

45' clean oil

30' very slightly oil and gas cut mud

(5% oil, 8% gas, 87% mud)

Pressures: ISIP

614

psi

**FSIP 499** IFP 16-47 psi psi

FFP 27-41 psi

HSH 1564-1522

psi

3276-3284'

Dolomite, as above, fair stain and saturation, fair show of free oil

and fair to good odor in fresh samples.

**Drill Stem Test #3** 

<u>3214-3284'</u>

Times:

45-45-45-60

Blow:

Fair to good

RECEIVED

Recovery:

10' clean oil

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120' very slightly oil and gas cut mud (5% gas, 5% oil, 90% mud)

KCC WICHITA

Pressures: ISIP

955

psi

**FSIP 924** 

psi

**IFP** 51-69

psi

77-80 **FFP** 

HSH

psi psi

3291-3304'

Dolomite; as above, trace brown and golden brown stain, weak

show of free oil and faint odor in fresh samples.

3304-3324'

Dolomite; as above, plus white, cherty, no shows.

3324-3350'

Dolomite; gray, white, finely crystalline, few scattered vuggy type

porosity, no shows.

3350-3360'

Dolomite and chert; as above.

1572-1486

3360-3380'

Dolomite; white/gray, medium and coarse crystalline, fair to good

intercrystalline and vuggy porosity (barren).

American Warrior Inc.
Buckley#6-18
SW-NE-SE (1724' FNL & 2191' FWL)
Section 18-19s-9w
Rice County, Kansas
Page 4

3380-3399'

Dolomite; as above, plus gray and white, boney to opaque chert,

no shows.

Rotary Total Depth 3400 Log Total Depth 3399

#### Recommendations:

5  $\frac{1}{2}$ " production casing was set and cemented at 3399' and the following zones be tested in the Buckley #6-18:

Arbuckle
 Arbuckle
 Arbuckle
 Arbuckle
 Arbuckle
 3274-3281 perforate
 3268-3270 perforate
 3008-3014 perforate

Respectfully submitted;

James C. Musgrove, Petroleum Geologist 307

RECEIVED
AUG 1 1 2011
KCC WICHITA