



Operator Name: American Warrior, Inc Lease Name: Steward Well #: 1-14  
 Sec. 14 Twp. 34 S. R. 9  East  West County: Harper

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>BHCS, DIL, CNL/CDL</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3456'</td> <td>-2150</td> </tr> <tr> <td>Toronto</td> <td>3469'</td> <td>-2163</td> </tr> <tr> <td>Kansas City</td> <td>4055'</td> <td>-2749</td> </tr> <tr> <td>Marmaton</td> <td>4347'</td> <td>-3041</td> </tr> <tr> <td>Pawnee</td> <td>4419'</td> <td>-3113</td> </tr> <tr> <td>Fort Scott</td> <td>4451'</td> <td>-3145</td> </tr> <tr> <td>Mississippi</td> <td>4574'</td> <td>-3268</td> </tr> </table>	Name	Top	Datum	Heebner	3456'	-2150	Toronto	3469'	-2163	Kansas City	4055'	-2749	Marmaton	4347'	-3041	Pawnee	4419'	-3113	Fort Scott	4451'	-3145	Mississippi	4574'	-3268
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CASING RECORD <input checked="" 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
Surface	12-1/4"	8-5/8"	23#	302'	Common	200	
Production	8-7/8"	5-1/2"	15.5#	4872'	Common	200	Flocele

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
2	4600'-4650'		
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TUBING RECORD: Size: <u>2-3/8"</u> Set At: <u>4911'</u> Packer At: <u>4853'</u>		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First, Resumed Production, SWD or ENHR. <u>N/A</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>N/A</u>	Gas Mcf <u>N/A</u>	Water Bbls. <u>N/A</u>	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Customer <i>AMERICAN WELLBURE</i>	Lease No.	Date <i>04-26-10</i>
Lease <i>STEWART</i>	Well # <i>1-14</i>	
Field Order # <i>1798</i>	Station <i>PRATT</i>	Casing <i>5 1/2</i>
Type Job <i>CDW 5 1/2 long stop</i>	Formation	Depth
		County <i>HARPER</i>
		State <i>KS</i>
		Legal Description <i>14-389</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>7850</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>796</i>	Volume	From	To	Pad	Min			10 Min.
Max Press <i>2,300</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>4804</i>	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>19867 19959 20920 19960 19919</i>		
Driver Names <i>Sullivan melson Phye</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>0200 AM</i>					<i>on for safety meeting</i>
					<i>RUN 114 JTS 5 1/2 15.5 CSF,</i>
					<i>cont. 1, 3, 5, 6, 7 rows 1, 4, 7</i>
<i>0630</i>					<i>CASING ON BOTTOM</i>
<i>0655</i>					<i>Hook Rig Breaker</i>
<i>0750</i>	<i>400</i>		<i>24</i>	<i>4</i>	<i>It open hole</i>
			<i>5</i>		<i>spacer</i>
				<i>5</i>	<i>MIX CONT 200SK AD-2 cont</i>
					<i>only mixer shut down, WASH, Pump, Gas</i>
					<i>Release Plug</i>
<i>0812</i>	<i>150</i>			<i>6</i>	<i>to depth</i>
	<i>350</i>		<i>84</i>		<i>hold PS</i>
	<i>600</i>			<i>4</i>	<i>Stop hole</i>
<i>0835</i>	<i>2000</i>		<i>116</i>	<i>3</i>	<i>Play down</i>
			<i>6</i>		<i>plug R-4</i>
			<i>5</i>		<i>plug W-4</i>
					<i>Job Complete</i>

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# **Geological Report**

American Warrior Inc.  
Steward #1-14  
2400' FNL & 400' FEL  
Sec. 14 T34S R9W  
Harper County, Kansas

James Dilts  
Geologist

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**American Warrior, Inc.**

## General Data

Well Data: American Warrior Inc.  
Steward #1-14  
SW-SE-SE-NE  
2400 FNL & 400 FEL  
Sec. 14 T.34S R. 9 W.  
Harper County, Kansas  
API # 15-077-21, 679-0000  
Lat N 37 05' 15.458965"  
Long W 99 15' 27.924402"

Drilling Contractor: Duke Drilling Co., Rig #10

Spud Date: April 16, 2010

Rotary TD Date: April 25, 2010

Elevation: 1295' Ground Level  
1306' Kelly Bushing

Directions: West side of Hazelton Kansas, intersection of  
1<sup>st</sup> Ave & Main/Corwin Rd, 0.2 miles North on  
Catalpa Rd, 6 miles East on Corwin Road, NE  
corner of 14-34-9, 0.5 mile South on 120 Rd  
into location.

Casing: 302' 8 5/8" 23# surface casing 200 sx 60/40  
3%cc 2%gel  
4872' 5 1/2" 15-1/2# new production casing

Samples: 10' wet and dry, 3000' to RTD

Drilling Time: 3000' to RTD

Electric Logs: Microresistivity/Borehole Compensated  
Sonic/Dual Compensated Porosity/Dual  
Induction

Drillstem Tests: One, Trilobite Testing Inc.

Problems: None

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## Formation Tops

### Steward 1-14

Hb 3456'-2150

Tor 3469 -2169

KC 4055 -2749

Mar 4347 -3041

Paw 4419 -3113

Ft Sc 4451-3145

~~AFB~~ 4574 -3268

*miss*

### Patterson 1-24

3466'-2174

3492 -2200

4064 -2772

4366 -3074

4437 -3145

4470-3178

4586 -3294

## Drill Stem Tests

Trilobite Testing Inc.

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DST #1

*Mississippi*

~~Arbuckle~~

Interval (4594' – 4684') Anchor Length 90'

Times: 30-60-30-60

I.F. – Fair Blow BOB 26 Min

I. S. I. - No Blow

F. I. – Fair Blow BOB 32 Min

F. S. I. – No Blow

IFP 16-27#

ISI 177#

FFP 27-46#

FSI 1404#

Recovery: 60' OS SWCM 1%oil 10%water 89%mud  
120'GIP

Summary: Due to structural position and DST recovery, the decision was made to set 5-1/2" production casing for open hole completion in the Arbuckle.

Recommended Perforations:



Mississippi

~~Abandonment~~: 4800'-4805'  
4730'-4735'  
4650'-4655'

Before Abandonment:

Kan City: 4082'-4086'

Respectfully Submitted,

James F Dilts

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