

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1054665

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:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from Feast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
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	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
OG         GSW         Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	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 #:	Operator Name:
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date         Date Reached TD         Completion Date or 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:	Well #:
Sec TwpS. R East _ West	County:	

**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 (Attach Additional Sheets)		Yes	No		og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog		Yes	No	Nam	1e		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted Electronically (If no, Submit Copy)		☐ Yes ☐ Yes ☐ Yes	│ No │ No │ No					
List All E. Logs Run:								
		Report al		RECORD N	ew Used ermediate, producti	ion, etc.		
Purpose of String	Size Hole Drilled	Size Ca Set (In	asing	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated						ement Squeeze Record d of Material Used)	Depth		
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENHF	<b>λ</b> .	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF (	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)		
(If vented, Sub	mit ACC	)-18.)		Other (Specify)	)					

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LaDonna 2-29
Doc ID	1054665

## Tops

Name	Тор	Datum
Anhydrite	1368	757
Heebner	3588	-1463
Lansing	3636	-1511
ВКС	3954	-1829
Pawnee	4037	-1912
Ft. Scott	4114	-1989
Cherokee	4132	-2007
Mississippian	4196	-2071
TD	4212	-2087

# **Geological Report**

American Warrior, Inc. LaDonna #2-29 1400' FSL & 1880' FWL Sec. 29 T18s R21w Ness County, Kansas



# American Warrior, Inc.

### **General Data**

Well Data:	American Warrior, Inc. LaDonna #2-29 1400' FSL & 1880' FWL Sec. 29 T18s R21w Ness County, Kansas API # 15-135-25212-0000
Drilling Contractor:	Petromark Drillling, LLc Rig # 1
Geologist:	Jason Alm
Spud Date:	February 22, 2011
Completion Date:	March 2, 2011
Elevation:	2119' Ground Level 2125' Kelly Bushing
Directions:	Bazine KS, ½ mi. East on Hwy 96, North 1/2 mi. on EE rd. East and South into location.
Casing:	1373' 8 5/8" surface casing 4217' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "R. Barnhart" CNL/CDL, DIL
Drillstem Tests:	One, Trilobite Testing, Inc. "Ray Schwager"
Problems:	None
Remarks:	LTD was six feet short of RTD due to fill in the hole.

	American Warrior, Inc.
	LaDonna #2-29
	Sec. 29 T18s R21w
Formation	1400' FSL & 1880' FWL
Anhydrite	1368', +757
Base	1399', +726
Heebner	3588', -1463
Lansing	3636', -1511
BKc	3954', -1829
Pawnee	4037', -1912
Fort Scott	4114', -1989
Cherokee	4132', -2007
Mississippian	4196', -2071
Osage	4202', -2077
RTD	4218', -2093
LTD	4212', -2087

### **Formation Tops**

#### **Sample Zone Descriptions**

#### Mississippian Osage (4202', -2077): Covered in DST #1

Dolo –  $\Delta$  – Fine to medium sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, heavy trip chert, heavily weathered with good vuggy porosity, fair to heavy oil stain and saturation, good show of free oil, good odor, excellent cut fluorescents, 135 units hotwire.

### **Drill Stem Tests**

Trilobite Testing, Inc. "Ray Schwager"

DST #1	Mississippian Osage Interval (4206' – 4215') Anchor Length 9' IHP – 2120 #	
	IFP – 45" – B.O.B. 30 min.	36-136 #
	ISI $-45$ " – Built to $1/2$ in.	1304 #
	FFP – 45" – B.O.B. 25 min.	141-226 #
	FSI – 45" – W.S.B.	1293 #
	FHP – 2021 #	
	BHT $-122^{\circ}F$	
	Recovery: 535' GIP	
	5	: 38°API
	124' MGO 65% Oi	ł

## **Structural Comparison**

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	LaDonna #2-29	LaDonna #1-29			
	Sec. 29 T18s R21w	Sec. 29 T18s R21w		Sec. 30 T18s R21w	
Formation	1400' FSL & 1880' FWL	380' FSL & 1300' FWL		350' FSL & 800' FEL	
Anhydrite	1368', +757	1363', +763	(-6)	1379', +749	(+8)
Base	1399', +726	1399', +727	(-1)	1413', +715	(+11)
Heebner	3588', -1463	3594', -1468	(+5)	3603', -1475	(+12)
Lansing	3636', -1511	3640', -1514	(+3)	3650', -1522	(+11)
BKc	3954', -1829	3955', -1829	FL	3971', -1843	(+14)
Pawnee	4037', -1912	4038', -1912	FL	4046', -1918	(+6)
Fort Scott	4114', -1989	4118', -1992	(+3)	4130', -2002	(+13)
Cherokee	4132', -2007	4134', -2008	(+1)	4147', -2019	(+12)
Mississippian	4196', -2071	4201', -2075	(+4)	4221', -2093	(+22)
Osage	4202', -2077	4207', -2081	(+4)	4235', -2107	(+30)

#### **Summary**

The location for the LaDonna #2-29 was found via 3-D seismic survey. The new well ran structurally higher than expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the LaDonna #2-29 well.

#### **Recommended Perforations**

Primary:		
Mississippian Osage:	(4202' – 4212')	<b>DST #1</b>

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

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Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

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- OF	PAGE 1						CITY, STATE, ZIP CODE			
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JOB TYPE Compute low string TICKET NO. Zar 54 SWIFT Services, Inc. **JOB LOG** LEASE LA DONNA WELL NO. CUSTOMER American Wattor 2.29 PRESSURE (PSI) CHART NO. RATE (BPM) VOLUME (BBL) (GAL) PUMPS DESCRIPTION OF OPERATION AND MATERIAL TIME C CASING TUBING T 175 sts EA-2 uf for flocale 52 casing 98 joints 21D 4218 LTD+212 Shire it 41.85 TOTAL PIPE 4820 cantrations 1,2,3,4,78 BASK. "5 no port round mloc TRX 114 1255 start 52 asing in well 1300 Drop ball - circulate point 1415 434 1500 Purp 50 gal MUDFUSH 30 Punp 20 Hol- Kal Hol fluch 42 550 Plug RH (30sts) 7 15.0 Mix cent 145 5 15 5 4-2 @ 15.4 199 450 6-61 35 1515 wash out pump \$ lines 1515 Relause 14th dram plug 1535 Displace plug 64 1540 400\_ 62 95 45D Plug down laoo 134 150 /10 Reliage pressure to truck - dried up 1603 upsh truck Job complete 1640 - Haller Dave David a Blaine

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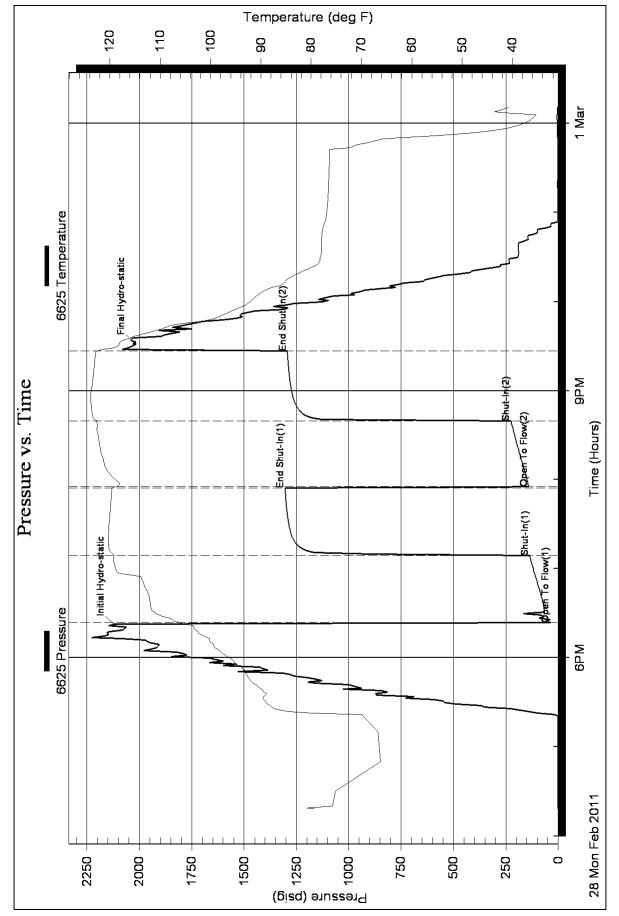
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(On-	RILOBITE ESTING , INC.	DRILL STEM TEST REPORT									
		American Warrior Inc			La	LaDonna #2-29					
		P O Box 399 Garden City Ks 67846			<b>29-18s-21w Ness</b> Job Ticket: 41894 <b>DST#:1</b>				<b>#· 1</b>		
		ATTN: Cecil O'Brate			est Start: 2011.02.28 @ 16:18:00						
GENERAL I	NFORMATION:										
Formation: Deviated: Time Tool Oper Time Test Ende		ft (KB)			Tes	ter: I	Convent Ray Sch 42	tional Bottom w ager	Hole		
Interval: Total Depth: Hole Diameter:	<b>4206.00 ft (KB) To 42</b> 4215.00 ft (KB) (T\ 7.85 inchesHole				Ref	erence Ele KB t	evations o GR/CF	2119.	00 ft (KB) 00 ft (CF) 00 ft		
Serial #: 60 Press@RunDe Start Date: Start Time:		<ul> <li>4207.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>		2011.03.01 00:10:54	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000. 2011.03. .28 @ 18:21: .28 @ 21:31:	55		
TEST COM	MENT: IFP-wk to a strg ISIP-1/2"bl bk FFP-wk to a strg FSIP-surface bl t	bl in 25min									
Pressure vs. Time					PRESSURE SUMMARY						
2250 2000 1750 1250 1250 1250 1250 2000 1250 200 1250 200 1250 200 200 200 200 200 200 200	6005 Presure	Plan ivee with:	- 120 - 110 - 100 - 00 - 00 - 00 - 00 - 00 -	Time (Min.) 0 2 47 92 93 138 185 190	Pressure (psig) 2119.64 36.79 136.22 1303.59 141.04 226.30 1293.04 2020.72		Initial F Open <sup>-</sup> Shut-Ir End Sf Open <sup>-</sup> Shut-Ir End Sf	nut-In(1) To Flow (2)			
Recovery					Gas Rates						
Length (ft)	Description Volume (bbl)					Choke (i	nches) F	Pressure (psig)	Gas Rate (Mcf/d)		
124.00	MGO 20%G15%M65%O	0.65	4								
455.00 0.00	CO 535'GIP	6.38	-								
0.00		0.00	+								
			1								
			]								
Trilobite Tes		Ref. No: 41894				<u> </u>	0044.04	3.01 @ 07:24			

(O))-		ITE ING , INC.	DRI	ILL STEM TEST REPOR	F	FLUID SUMMARY	
家地			Americ	can Warrior Inc	#2-29		
	<b> </b> ESTI		1 0 00	ox 399 n City Ks 67846	<b>29-18s-21</b> Job Ticket:		DST#:1
			ATTN: Cecil O'Brate			2011.02.28 @ 16:	-
Mud and Cu	shion Info	rmation					
	el Chem 9.00 lb 51.00 si 7.93 in	o/gal ec/qt ₃³ hm.m pm		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	38 deg A Pl ppm
Recovery In	formation						
	[	Leng	th	Recovery Table Description	Volume bbl	7	
			124.00	MGO 20%G15%M65%O	0.64	-6	
			455.00 0.00	CO 535'GIP	6.38		
	 Tot	al Length:		1.00 ft Total Volume: 7.028 b			
		ooratory Nan		Laboratory Location:			



29-18s-21w Ness



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Ref. No: 41894

Trilobite Testing, Inc