## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(	See Instru	uctio	ns on Rev	erse Sid	de)	)					
	en Flov				Test Date	<b>:</b>					API	No. 15				
Del	liverabi	11y 54	Hr.Shut	- In Test	10/6/14							033-21044 -	000	00		
Company Americar	,			110 1001				Lease Carthrae	)					#1-4	Well N	ımber
County Comand	he		Location C-SE-S		Section 4			TWP 33			RNG (E/ 18W	W)				Attributed
Field Wagnon				_	Reservoir Mississi				<del></del>		Gas Gat	hering Conne	ction	1	MC	
Completic 01/17/00		•			Plug Bac 5257'	k Total De	epth				Packer S	Set at	<del></del>	4	DEC	2 0
Casing Si 51/2	ize		Weight		Internal E 5.950	Diameter		Set a			Perfo	rations 5'		To 5230'	REC	21115
Tubing Si	ze		Weight 4.70		Internal E 1.995	Diameter	_	Set a	ıt			rations		То		EWED
Type Com Gas	pletion	(De			Type Flui	d Product tion Wa		020	11	_		nit or Traveling	Plur		/ No	
	Thru	(Anr	ıvlus / Tubing	)		arbon Dic		<del></del>			% Nitrog			Gas Gr	avity -	G,
Annulus																
Vertical D	epth(H	)				Pro	essu	ire Taps						(Meter	Run) (F	rover) Size
Pressure	Buildu	o: :	Shut in11/	4	20 15 at 2	:30PM	(/	AM) (PM)	Taken_	11	/15	20	15	at_2:30Pl	M	(AM) (PM)
Well on Li	ine:		Started		20 at		_ (	AM) (PM)	Taken_			20	_	at		(AM) (PM)
						OBSER	VED	SURFACI	E DATA	-			Dura	ution of Shut-	24	Hours
Static / Dynamic	Orifi Size		Circle one: Meter	Pressure Differential	Flowing Temperature	Well Hea	- 1	Cas Wellhead	Pressure		Wellhe	Tubing ad Pressure		Duration		id Produced
Property	(inch		Prover Pressu psig (Pm)	re in Inches H <sub>2</sub> 0	1	t		(P <sub>w</sub> ) or (P	psia		(P <sub>w</sub> ) or	P <sub>i</sub> (P <sub>i</sub> ) or (P <sub>c</sub> )		(Hours)		(Barrels)
Shut-In								90	•							
Flow								25								
			1			FLOW S	TRE	AM ATTR	IBUTES	_						<del></del>
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor			Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>m</sub>
					(OPEN FL		IVE	RABILITY	) CALCL	JL.	ATIONS			(P <sub>a</sub> )	) <sup>2</sup> = 0.	207
(P <sub>c</sub> ) <sup>2</sup> ==	<del></del> -	<del>-</del> :	(P <sub>w</sub> )² =	Choose formula 1 or	P <sub>d</sub> =		%	(F	· 14.4)	+	14.4 =	<del></del> :		(P <sub>d</sub> )	) <sup>2</sup> =	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or		(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2.			Backpressure Curve Slope = "n"			лх	LOG	Antilog		Open Flow Deliverability	
(P <sub>e</sub> ) <sup>2</sup> - (F	-d)2			divided by: P <sub>c</sub> - P	and divide	P <sub>c</sub> - P <sub>w</sub> 2			signed ard Slope	·					Equa	(Mcfd)
	-		-	_				_								
Open Flo	l w	_		Mcfd @ 14	.65 psia			Deliverab				<u>,                                    </u>	Mefe	 I @ 14.65 ps	ia ia	
		inne	d authority or			etatee tha	t bo			1 +/	a maka H	ne above repo		•		
				id report is tru							_	ECEMBER	rt ar	nd that he ha		20 <u>15</u> .
			Witness (i	any)			-	-					Compa	ALUS Philip	l L	
•			For Comm	ission			-	-	<del>_</del> -			F WYChe	ked b	y www.	<b>//</b>	·

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator American Warrior Inc.
correct to the best of equipment insta	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the <a href="Carthrae #1-4">Carthrae #1-4</a>
gas well on the gr	ounds that said well:
_	is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date. <u>12142</u> 010	Signature: WELL OPERATIONS ASSISTANT

## Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.