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

Type Test:				. (	See Instruct	ions on Rev	erse Side	)	,			• •
Open Flo	ow							k.				
Deliverability 244R Shut In Test				Test Date 10/6/13					No. 15 )33-21044 <b>- Q</b>	000		
Company American Wa					Lease Carthrae				#1-4	Well Number		
County Location Comanche C-SE-SE				Section 4		TWP 33			RNG (E/W) 18W		Acres Attributed	
Field Wagnon			Reservoi Mississi					Gas Gathering Connection  ——American W		or.		
Completion Da 01/17/00				Plug Bac 5257'	k Total Dept	h	\ \frac{1}{2} \cdot \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Packer Set at			
Casing Size 51/2	Weig 15.5	•	Internal [ 5.950	Diameter		Set at <b>5299'</b>		Perforations 5225'				
Tubing Size 23/8	Weig 4.70		Internal I 1.995	Diameter '		Set at <b>5257'</b>		Perforations				
Type Completion Gas	on (De	scribe)			d Production tion Wate		Pu		ump Unit or Traveling Plunger? Youmping unit		/ No	
Producing Thru	⊬(Ann	ulus / Tubir	ng)	'% C	Carbon Dioxi	de	,	% Nitroge	en'	Gas Gr	avity - G <sub>g</sub>	
Annulus	ш\				· ·					(Manager)	Out (Drawar) Cina	•
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size												•
Pressure Buildu	up: S	Shut in11	/06 2	0 13 at 2	:30PM	(AM) (PM)	Taken_10	)/07 ·	20 _	3 at_2:30PM	<b>И</b> (AM) (PM)	
Well on Line:							1				(AM) (PM)	• . •
					OBSERVE	D SURFACE	DATA	¥	D	uration of Shut-	in 24 Hours	
Dynamic Siz	Meter I Differential I		Flowing Well Head Temperature Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing  Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Duration (Hours)	Liquid Produced (Barrels)		
Property (inch	nes)	psig (Pm)		1 -	t -	psig	psia	psig	psia	(110010)	(Daireis)	
Shut-In			·			135						,
Flow						35				•		
					FLOW STR	EAM ATTRIE	BUTES	, , , , , , , , , , , , , , , , , , , ,			•	
$ \begin{array}{c cccc} & Plate & & Circle one: & & Press \\ Coeffiecient & & Meter or & Extension \\ & (F_b) (F_o) & Prover Pressure \\ & Mcfd. & psia & \hline \\ \end{array} $			Factor Te		Flowing Devia		ctor - R		GOR (Cubic Fer Barrel)	et/ Fluid		
												,
(D.)2		/D \2		•	, ,	ERABILITY)			•	•	2 = 0.207	
(P <sub>c</sub> ) <sup>2</sup> =	<del>-</del> -	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2:	P <sub>d</sub> =		1	- 14.4) +	14.4 =	· · · · · · · · · · · · · · · · · · ·	(P <sub>d</sub> ) <sup>2</sup>	=	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_a)^2$ $(P_c)^2 - (P_w)^2$ 1. $P_c^2 - P_a^2$		LOG of formula 1. or 2. and divide by:    P 2 P 2   P		Backpressure Curve Slope = "n" Assigned Standard Slope		n x L	og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
	٠.											
	٠.											· .
Open Flow Mcfd @ 14.65 psia						Deliverability			Mo	Mcfd @ 14.65 psia		
The unders	igned	authority, o	n behalf of the	Company, s	tates that he	e is duly autl	horized to	make the	above report	and that he ha	s knowledge of	
the facts stated t	herein	, and that s	aid report is true	and correct	t. Executed	this the 30		day of O	CTOBER		, <sub>20</sub> <u>13</u>	• •
· · · · · · · · · · · · · · · · · · ·								Su	uul	ase		
		. Witness (						Ro	ger llu	ruh	KCC W	(ICHI
		For Comn	nission <sub>.</sub>						Checker	d by	NOV 27	7 2013

	I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	exempt status under Rule K.A.R. 82-3-304 on behalf of the operator American Warrior Inc.
	and that the foregoing pressure information and statements contained on this application form are true and
	correct to the best of my knowledge and belief based upon available production summaries and lease records
	of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
·	I hereby request a one-year exemption from open flow testing for the Carthrae #1-4
·	gas well on the grounds that said well:
. • •	
	(Check one)
	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
	I further agree to supply to the best of my ability any and all supporting documents deemed by Commission
	staff as necessary to corroborate this claim for exemption from testing.
	Date: 11/31/2013
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	$\langle \langle \langle \langle \langle \rangle \rangle \rangle \rangle \rangle = \langle \langle \langle \langle \rangle \rangle \rangle \rangle$
	Signature:
	Title: PRODUCTION ASSISTANT
٠	

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.

KCC WICHITA

NOV 27 2013

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