KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

* ***

Type Test	t:					6	See Inst	ructi	ons on Reve	rse Side,)							
√ Op	en Flo	w				T4 D-4-					A F	V N - 45						
Deliverabilty				Test Date: 12/18/2014					API No. 15 15-017-20664 - 0<i>000</i>									
Company		k Ga	ns Co., Inc					_	Lease Crawford						4	Vell Nu	ımber	
County Location Chase NW/4 SE/4				Section 32				TWP RNG (18 7E			(E/W)			Acres Attributed				
					Reservoir Lansing				Gas Gathering Connection Shawmar Oil & Gas Co., Inc Antelope									
Completic 1991	on Dat	e				Plug Bac	k Total D	eptl	n		Packer	Set at	-			•		
Casing Size Weight 4.5				Internal D	Internal Diameter S				at Perforations purchased no				To files					
Tubing Size Weight none				Internal D	Internal Diameter				Perforations			То						
Type Con single	npletio	n (De	escribe)		_	Type Flui	d Produc	ction			Pump l	Jnit or Trav	eling	Plunge	r? Yes	/ No		
Producing Thru (Annulus / Tubing)					% Carbon Dioxide				% Nitrogen				Gas Gravity - G					
Annulus Vertical Depth(H)				.30	.36 Pressure Taps					14.94				.7057 (Meter Run) (Prover) Size				
N/A			12	/17		11 1		ang						1/	2" me 11:00 a	·		
Pressure	Buildu		Snut in						(AM) (PM) T					14 at		 -	(AM) (PM)	
Well on L	ine:		Started	7-1	. .	_ at	1:00	<u>م</u>	(AM) (PM) T	aken	7-18		_ 20	⊥ at	11:00	<u>, </u>	(AM) (PM)	
_							OBSE	₹VE	SURFACE	DATA				Duratio	n of Shut-i	_{n_24}	Hours	
Static / Orifice Dynamic Size Property (inches		е	Meter Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature t		Wellhead Pr (P _w) or (P _t)	Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _L) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			psig (Pm)	-	Inches H ₂ 0				psig	psia	psig	psie		24				
Flow				_			<u></u>		<u> </u>					47				
FIOW							FLOW	r.T.D	L L EAM ATTRIB	NITEC .						<u> </u>		
Plate	, 1		Circle one:	1				JIN	Flowing	_		$\overline{}$					Flowing	
Coefficient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia			Press Extension ✓ P _m xh	Gravity Factor F		Temperature Factor F ₁₁		Deviation Factor F _{pv}		Я	Metered Flow R (Mcfd)		GOR (Cubic Feet Barrel)		Fluid Gravity G _m	
						(OPEN FL	OW) (DE	LIV	ERABILITY) (CALCUL	ATIONS				/D \	01	207	
(P _c) ² =		_:	(P _w) ²	=	:	` P _d =			•	- 14.4) +						= 0.2		
(P _c) ² - (P _e) ² or (P _c) ² - (P _d) ²		(P _c) ² - (P _w) ²		:	ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:		Backpressu Slope = or Assigr Standard		= "n" r gned	in in x l		roe		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
				-				- -		-1-	+							
												_						
Open Flo	w				Mcfd @ 14.0	65 psia			Deliverabili	ty				Mcfd @	14.65 psi	a		
The	unders	igne	d authority,	on b	ehalf of the	Company,	states th	at h	e is duly auti					rt and	that he ha	s knov	vledge of	
the facts s	stated t	herei	in, and that	said	report is true			R	this the 22 eceived		day of _	Decembe	r	1/	/		20 14 .	
			Witness	(if an	у)			CORF	PORATION COM		Try		L	ompany				
							Ŋ	EC	: 3 1 20 <u>1</u> 4	4		-	Chr	cked by			•	
			For Con	1148551	uit		COM		ATION DIVISI	ŅŃ			une	eved ph				

exempt status under and that the forego correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request r Rule K.A.R. 82-3-304 on behalf of the operator Shawmar Oil & Gas Co., Inc ing 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 ation and/or upon type of completion or upon use being made of the gas well herein named. It a one-year exemption from open flow testing for the Crawford 4
	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
I further agree t	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: 12/22/2014	
DE	Received Signature: Signature: President Signature: President Signature: President

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.