KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				Ó	See Instruct	ions on Re	verse Side)					
√ Op	en Flor	N			Test Date				ΛÐΙ	No. 15				
De	liverab	ilty			8/29/201					89-20700 -	0000			
Company Chesapeake Operating, L.L.C.					Lease Ratcliff				3-17	Well Number 3-17				
County Stevens	-		Locatio 3180 FSI	on . & 4950 FEL	Section 17		TWP 33S		RNG (E/\ 37W	N)		Acres	Attributed	
Field Central I	- Kansa	s			Reservoir Morrow	•				ering Conne Energy Ser				
Completic 5/13/198		9			Plug Back	k Total Dept	h .	,	Packer S	et at				
Casing Si	ize		Weight		Internal D 4.950	iameter	Set 6		Perfor	ations	то 6080	(OA)		
Tubing Si	ize		Weight	;	Internal E	Diametér	Set a 603		Perfor	ations	То	` ,		
Type Con	npletion	ı (De	escribe)	•		d Production ter			Pump Un Pump		Plunger? Yes	s / No		
	g Thru	(Anı	nulus / Tubing)	% C	% Carbon Dioxide			% Nitroge	Gas 0	Gas Gravity - G _g			
Annulus														
Vertical D 6225	epth(F	l)				Pres	sure Taps				(Mete	r Run) (I	Prover) Size	
Pressure	Buildu	p:	Shut in <u>8/28</u>	. 2	0_ <u>15</u> _at_8:	:00	(AM) (PM)	Taken_8/	29	20	15 at 8:00		(AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
		-	•			OBSERVE	D SURFAC	E DATA	•		Duration of Shu	ıt-in24	Hours	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperatu se t	Well Head Temperature t	(P _w) or (F	Pressure (t) or (P _c)	Wellhea (P _w) or	ubing ad Pressure (P,) or (P _c)	Duration (Hours)		ild Produced (Barrels)	
Shut-In			paig (r m)	Miches 11 ₂ 0			psig 80	94.4	psig 5	19.4	24			
Flow			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
					·	FLOW STR	EAM ATTR	IBUTES	 · · · ·		1			
Plate Coeffied (F _b) (F Mofd	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension	Grav Fact F	tor	Flowing Temperature Factor F _{rt}	Fa	iation ictor pv	Metered Flov R (Mcfd)	y GOI (Cubic I Barre	eet/	Flowing Fluid Gravity G _m	
	_				-					_				
			47.10		-	OW) (DELIV						$_{a})^{2}=0.$	207	
(P _c) ² =	.	<u>-</u> :	(P _w) ² =	Choose formula 1 or 2		 `		o - 14.4) +	- I-	: :	(P	<u>d</u>) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	$(P_c)^2 - (P_w)^2 \qquad 1. P_c^2 - P_e^2$ $2. P_c^2 - P_d^2$		LOG of formula 1. or 2. and divide p 2. p 2		Backpressure Curve Slope = "n"				Antilog	D	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				divided by: $P_c^2 - P_w$	2 by:	<u>L° "</u>	Stand	lard Stope					(WOIG)	
	·	<u></u>					-							
Open Flow			Mcfd @ 14.65 psia					Deliverability N			Mcfd @ 14.65 psia			
		igne	d authority, o	behalf of the	Company,	states that h	ne is duly a	uthorized t	o make th	e above repo	ort and that he	has kno	wledge of	
the facts s	stated t	here	in, and that sa	id report is tru	e and correc	t. Executed	this the 1	8	day of N	ovember		<u> </u>	20 15	
_			.Witness (i	any)		 <mark>Kansas C</mark> of	Received RPORATION CO	MMISSION		For	Company			
			For Comm	isslom		DE	C 0 2 21	<u>)15 </u>		Che	cked by			

CONSERVATION DIVISION WICHITA, KS

exempt s	slare under penalty of perjury under the laws of the state of Kansas that I am authorized to requestatus under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, L.L.C. the foregoing pressure information and statements contained on this application form are true an
correct to of equipr I her	o the best of my knowledge and belief based upon available production summaries and lease record ment installation and/or upon type of completion or upon use being made of the gas well herein named eby request a one-year exemption from open flow testing for the Ratcliff 3-17 on the grounds that said well:
l furt	(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 ther agree to supply to the best of my ability any and all supporting documents deemed by Commissing to corroborate this claim for exemption from testing.
Date: <u>11</u>	Signature: Sara Everett, Regulatory Analyst

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.

The hours