KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:		U 1112				ctions on A			LNADILII	i i i Loi	
Open Flow Test Date: 9/09/201										I No. 15 321340 – I	n nn n	
Company		e Oı	nerating	Inc	0,00,20	-10	Lease Pierce		- 00	021040	5-27	Well Number
Chesapeake Operating, Inc. County Location Company NM ANA					Section			TWP		/W)	J-21	Acres Attributed
Comanche NW NW					27 Reservoir		G		Gas Ga	19W Gas Gathering Connection		
Bird East Completion Date					Mississ Plug Bac	ippian k Total Dej	nth	Oneok Energy Packer Set at			vices 	
1/4/03					5933							
Casing Size Weight 5 1/2" 15.5				Internal Diameter 4.950		Set at 5950		Perfo 512	rations 2	то 5242		
Tubing S 2 7/8"	Tubing Size Weight 2 7/8" 4.7				Internal I 2.441	Internal Diameter 2.441		Set at 5105		rations	То	·
Type Completion (Describe) Gas						id Production	· · · · · · · · · · · · · · · · · · ·	Pump Unit or Trave		nit or Traveling	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing)						· · · · · · · · · · · · · · · · · · ·			_			ravity - G _g
Annulus Vertical E		- 1)		·		Pre	ssure Taps			· · ·	(Moter	Run) (Prover) Size
5987								_			(Mete)	(1 10461) 3128
Pressure	Buildu	ip:	Shut in <u>9/8</u>	 ;	20 13 at 8		_ (AM) (PM) Taken 9/	/9	20	13 _{at 8}	(AM) (PM)
Well on L	ine:	:	Started	2	20 at		_ (AM) (PM) Taken	· .	20	at	(AM) (PM)
						OBSERV	ED SURFAC	CE DATA		,,,,	Duration of Shut	in 24 Hours
Static / Dynamic	Orifi Siz		Circle one: Meter	Differential	Flowing Temperature	Well Head Temperature	Wallbook	Casing Wellhead Pressure		Tubing ead Pressure	Duration	Liquid Produced (Barrels)
Property		ches) Prover Press psig (Pm)		in Inches H ₂ 0	t	t	(P _w) or (P _t) or (P _c)	(P,) or	r (P _t) or (P _c)	(Hours)	
Shut-In	hut-In						0	14.4	160	174.4	24	
Flow						<u> </u>						
				1		FLOW ST	REAM ATT	RIBUTES			· · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Grav Fact F _s	tor	Flowing Temperature Factor Fn	Fa	riation actor = py	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravity
					(ODEN EL	040 (051 11	450 t Du 157					
(P _c) ² =		_:_	(P _w) ² =	=:	P.=		/ERABILIT	Y) CALCUL (P _c - 14.4) +		:	(P _a) (P _r)	² = 0.207 ² =
$(P_o)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _o) ² - (P _w) ²		Choase tormula 1 or 2 1. P _c ² - P _c ² 2. P _c ² - P _c ² divided by: P _c ² - P _c	1. P _c ² - P _d LOG of formula 2. P _c ² - P _d 1. or 2. and divide		Sid A	Backpressure Curve Siope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
	_											
Open Flow	l			Mcfd @ 14.	65 psia		Deliveral	bility			Mcfd @ 14.65 psi	2
		gned	authority, o		·	tates that h			o make th		rt and that he ha	
				aid report is true							une martie fla	, 20 <u>13</u> .
												RECEIVI
			Witness ((if any)			•	 "		For C	company K	ANSAS CORPORATIO
			For Comm	nission	·					Chec	ked by	OCT 2 3

I declare un	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status ur	nder Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.
and that the fore	egoing pressure information and statements contained on this application form are true and
correct to the be	st of my knowledge and belief based upon available production summaries and lease records
	stallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby requ	uest a one-year exemption from open flow testing for the Pierce 5-27
gas well on the ç	grounds that said well:
(Char	
(Criec	ck one)
<u> </u>	is a coalbed methane producer is eveled on plunger lift due to water
	is excled on plunger lift due to water is a source of natural gas for injection into an oil resonair undergoing EP
	is a source of natural gas for injection into an oil reservoir undergoing ER
<u></u>	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
[▼	is not capable of producing at a daily face in excess of 250 file/i/D
I further agre	ee to supply to the best of my ability any and all supporting documents deemed by Commission
	rry to corroborate this claim for exemption from testing.
Date: 10/18/201	। २
Date. 10, 10, 20.	<u> </u>
	Signature: Dann Lichards
	Title: Dawn Richardson, Associate 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 RECEIVED signed and dated on the front side as though it was a verified report of annual test results.

KANSAS CORPORATION COMMISSION