## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				(	See Instru	ctions on Re	verse Side	<del>;</del> )				
<b>√</b> Op	en Flo	W			Test Date	<b>.</b> •			ΔDI	No. 15			
De	liverat	Test Date: API No. 15 8/15/2015 15-189-20901 <b>- 6000</b>											
Company Chesape		Oper	ating, L.L.C		-		Lease Wing (	Jnit			1-33	Well N	ımber
•			Location 3300 FSI	on L & 4620 FEL	Section 33		TWP 32S			RNG (E/W) 36W		Acres Attribute	
· · · · · ·				Reservoir Morrow			Gas Gathering Connection OneOk Energy Services						
Completion Date 4/21/86					Plug Back Total Depth 6460				Packer Set at 5695				
Casing Size Weight 5.5 15.5			t	Internal D 4.950	Diameter	Set at 6490		Perforations 5995		то 6045	ı		
Tubing Size 2.875		_	Weight 6.5		Internal Diameter		Set at 5980		Perforations		То		
Type Con Gas	npletio	n (D			Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Plunger					
Producing	g Thru	(An	nulus / Tubing	))		arbon Dio	xide		% Nitrog		Gas G	aravity -	G,
Tubing  Vertical D	Depth()	H) .	<del></del>	· ·	•	Pre	ssure Taps				(Mete	· Bun) (F	rover) Size
6500	opun,					1.0	cours raps				(moto		10101, 0120
Pressure	Buildu	ıp:	Shut in8/14	4 . 2	0_15_at_8	:00	_ (AM) (PM)	Taken_8/	15	20	15 at 8:00		(AM) (PM)
Well on L	.ine:	,	Started	2	0 at		_ (AM) (PM)	Taken		20	at	•	(AM) (PM)
						OBSERV	ED SURFAC	E DATA			Duration of Shu	<sub>t-in</sub> _24	Hours
Static / Dynamic Property	Orif Si: (Incl	ze	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Temperature  t    Column   Col		ad Pressure r (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Shut-In			parg (r m)	mones H <sub>2</sub> O			psig 0	psia 14.4	150	164.4	24		
Flow													
						FLOW ST	REAM ATT	RIBUTES		'		1	
Coeffied (F <sub>b</sub> ) (F	Plate Coeffiecient (F <sub>B</sub> ) (F <sub>P</sub> ) Mofd		Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> xh	Extension Fac		Flowing Temperature Factor F <sub>It</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G <sub>m</sub>
		<u> </u>									<u> </u>		
(P <sub>c</sub> ) <sup>2</sup> =	-	_:	(P <sub>w</sub> ) <sup>2</sup> =	:	•	OW) (DELI	VERABILITY _% (	/) CALCUI P <sub>c</sub> - 14.4) +		<u>:</u>		a) <sup>2</sup> = 0.	207
(P <sub>c</sub> ) <sup>2</sup> - (l	P <sub>e</sub> )² P <sub>d</sub> )²	([	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Sk A	essure Curve pe = "n" or ssigned dard Slope	l n x	LOG	Antilog	De	pen Flow liverability is R x Antilog (Mcfd)
				· · · · · ·									
Open Flo				. Mcfd @ 14.	65 neis	-	Delivera	hility			Mcfd @ 14.65 p	neia.	
		.!	d puthovitu a			atataa that			la maka ti		· ·		uladaa af
-		_	<u>-</u>	aid report is true						lovember	ort and that he		20 <u>15</u> .
						KANSAS	Receive CORPORATION	d  COMMISSION	٧		· · · · · · · · · · · · · · · · · · ·		
			Witness (i	f any)	•		DEC 02	2015		For	Company		
			For Comm	lission	•	CO	NSERVATION I			Che	cked by		

I declare und exempt status und and that the fore correct to the bes of equipment inst	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, L.L.C. going pressure information and statements contained on this application form are true and tof my knowledge and belief based upon available production summaries and lease records allation 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 Wing Unit 1-33 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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: <u>11/16/2018</u>	<u>;                                    </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.