KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			* * (See Instrucț	ions on Re	verse Side)		•		•	
Op	en Flow			Test Date	,			API N	lo. 15		- (
De	liverabilty			8/7/2010					-20161 (DOD	(
Company Chesapeake Operating, Inc.					Lease Wood				Well No. 3-13				
County Location . Hamilton				Section 13			TWP 24S		V)		Acres Attributed		
Field Bradshaw				Reservoir Chase			Gas Gathering Cor Bradshaw Gas				, ,		
Completion Date 2/17/1977				Plug Bac 2365	k Total Dept	h	Packer S None		et at			-	
Casing Size Weight 4.5 10.5			Internal E 4.052	Diameter	Set at 2380		Perforations 2322		то 233 6	,			
Tubing Size Weight 2.375 4.7			Internal II 1.995	Diameter	Set at 5353		Perforations		То	. [***********		
Type Completion (Describe) Single Gas				Type Flui Water	d Production	1	Pump Pu n			g Plunger? Yes	s / No		
Producing Annulus		nnulus / Tubir	ng)	% C	arbon Dioxi	de	9 % Nitr		n .	Gas G	Gravity - G	•	
Vertical D					Pressure Taps Flange				2 - 1.		(Meter Run) (Prover) Size		
	Buildup:	Shut in 8/7	7 2	10 at 7			Taken_8/	8	20	10 at 7:00	(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	nt-in 24 Hou	urs	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Press	Differential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	· .	
Shut-In	`	psig (Pm)) Inches H₂0		,	psig 88	psia 102.4	psig 82	96.4	24		\dashv	
Flow	•						102.4	02	30.4	24	;		
					FLOW STR	EAM ATTR	IBUTES	1					
Coefficient		Circle one: Meter or rover Pressure psia Press Extension V P _m x h		Gravity Factor F _g		Temperature Fa		viation Metered Flov actor R F _{pv} (Mcfd)		w GOF (Cubic F Barre	Fluid Gravity	Gravity	
				(ODEN EL	0W/ (DELIV	EDADU ITV) CALCUI	ATIONS	·				
P _c) ² =	<u></u>	(P _w) ²		• P _d =	OW) (DELIV		P _c - 14.4) +		<u> </u>		$a^{2} = 0.207$ $a^{2} = 0.207$	1	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² Choose formula 1 or 2: 1. P _c ² - P _e ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²		LOG of formula 1. or 2. and divide	formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		og [Antilog	Open Flow Deliverability Equals R x Antilo (Mcfd)	Deliverability Equals R x Antilog	
			11.41.0.4	OF!-		D-#	Allian e	<u> </u>		Mate @ 11 05			
Open Flo		<u> </u>	Mcfd @ 14			Deliverab	-		-1	Mcfd @ 14.65 p	<u> </u>	_	
The	ū	•	on behalf of the			-		o make the day of <u>No</u>		ort and that he h	nas knowledge of RECEI	IVE	
he facts s													
he facts s		Witness	(if any)		•		,		For	Company	DEC 0	3 7	

I declare under penalty of perjury under the laws of the	ne state of Kansas that I am authorized to reque	est
xempt status under Rule K.A.R. 82-3-304 on behalf of the c	pperator Chesapeake Operating, Inc.	
nd that the foregoing pressure information and statemer	nts contained on this application form are true a	nd
orrect to the best of my knowledge and belief based upon	available production summaries and lease recor	ds
f equipment installation and/or upon type of completion or	upon use being made of the gas well herein name	∍d.
I hereby request a one-year exemption from open flow	testing for the Wood 3-13	
as 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 in	nto an oil reservoir undergoing ER	
is on vacuum at the present time; KCC a	approval Docket No	
is not capable of producing at a daily ra	te in excess of 250 mcf/D	
	* ************************************	
I further agree to supply to the best of my ability any a	nd all supporting documents deemed by Comm	ssior
taff as necessary to corroborate this claim for exemption	from testing.	
vate: November 1, 2010		
	$_{1}$ \bigcirc \bigcirc \bigcirc	
Signature:	DUWX/-	
	vid Wiist, Production Engineer	_

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.

RECEIVED

DEC 0.3 2010