KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Insti	ructi	ons on Re	verse Si	de)							
Op	en Flov	v				Tool Date						A DI	No 1E					
Del	liverabi	lty				Test Date 10/11/20							No. 15 5-20550 -	\cdot	000			
Company Chesap		Or	perating, I	nc.					Lease Bradsh	naw					2-36 W	/ell Nu	nber	
County Hamilto	County Location Hamilton SW NE NE				Section 36		TWP 22S			RNG (E/W) 41W			Acres Attributed					
Field Bradsha	aw					Reservoir Chase							hering Conr Energy Se					
Completic 7/13/19		•				Plug Back 2630	k Total D	epti	h	<u>,</u>	F	Packer S	et at					
Casing Size Weight 4.5				Internal C	Diameter	Set at 2669			Perforations 2611			To 2616						
Tubing SI 2.375	Tubing Size Weight 2.375 4.7				Internal Diameter 1.995			Set at 2620			Perforations			То				
Type Completion (Describe)				Type Flui	d Produc	I				Pump Unit or Traveling Plunger? Yes / No Pump Unit								
		(Anr	nulus / Tubin	g)		% C	arbon Di	ioxic	de		9	% Nitrog	en		Gas Gra	vity - G	i _o	
Annulus															0.760			
Vertical D	epth(H)						ress ang	sure Taps De						(Meter R 2"	un) (Pr	over) Size	
Pressure	Buildup	o: :	Shut in 10/	11	5	11 at 7				Taken_	10/	12	20	11	7:00	(AM) (PM)	
Well on L	ine:		Started		20) at			(AM) (PM)	Taken _			20	·	. at	(AM) (PM)	
							OBSEF	RVE	D SURFAC	E DATA				Dur	ation of Shut-i	24	Hours	
Static / Dynamic Property	namic Size		Prover Pressure		Pressure Differential In	Flowing Temperature t	Well Head Temperature		Casing Wellhead Pressure (P _w) or (P ₁) or (P _n)			Tubing Wellhead Pressure (P _w) or (P ₁) or (P _a)			Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	•		psig (Pm)	-	inches H ₂ 0				psig 46	psia 60.4		psig 72	96.4	2	1			
Flow											7		-	-	•	-		
			!				FLOW S	STR	EAM ATTR	RIBUTES								
Plato Coefflecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension Pmxh	Gravity Factor F _g		T	Flowing femperature Factor F _{f1}		Deviation Factor F _{pv}		Metered Flow R (McId)		W GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
				<u> </u>		(OPEN FL	OW) (DE	LIV	ERABILITY	() CALC	ULA	TIONS			(0.)2	- 00	0.7	
(P _c)2 =		<u>_:</u>	(P _*) ² =	<u>-</u>	:	P _d =		_		P _c - 14.4			;	-,	(P _d) ²	≈ 0.2 <u>=</u>		
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		(F	(P _e) ² - (P _w) ²		ose formula 1 or 2 1. P _c ² - P _a ² 2. P _c ² - P _d ² ted by: P _c ² - P _d ²	LOG of formula 1. or 2, and divide	formula 1. or 2, and divide p_2_p_2		Backpressure Curv Slope = "n" 			n x LOG		Antilog		Open Flow Deliverability Equats R x Antilog (Mcfd)		
														_				
				_		05				L-1914				<u> </u>	16.4405			
Open Flo					Mcfd @ 14.			-	Delivera	·····					d @ 14.65 psi			
		-	•										ne above rep love m ber	oort a	nd that he ha		ledge of 20 <u>11 .</u>	
the facts s	itated ti	here	in, and that s	aid	report is true	and correc	t. Execu	uted	this the	1		Hay of 1	11/1				ECEIVED	
			Witness	(Il en	у)			_		_			Fo	r Comp	any	N	OV 1 4 201	
			Far Com	missio	on		· · · · ·		•				Ci	iecked		KC	 C WICHIT	

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to reques exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.	;t _
and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records	
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named I hereby request a one-year exemption from open flow testing for the Bradshaw 2-36	l.
gas 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 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	
I further agree to supply to the best of my ability any and all supporting documents deemed by Commiss staff as necessary to corroborate this claim for exemption from testing. Date: 11/8/2011	sion
Signature:	-
Title: Erin Carson, Regulatory Compliance 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.

NOV 1 4 2011