KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(\$	See Instruct	tions on Rev	erse Side)					
Ор	en Flov	N			Tool Date				ADI	No. 15				
De	liverabi	ilty			Test Date 05/21/20					5-20106 - (000			
Company		Op	erating, Ir	nc.			Lease Campb	ell			1-15	Well Nur	mber	
County Hamilton		Location C NW NW		Section 15				RNG (E/W) 40W		,	Acres Attributed			
Field Bradsh	aw			** - 11.40.00	Reservoir Case					nering Conn		,		
Completio 7/28/19		е			Plug Back 2792	Plug Back Total Depth 2792		Packer S None		et at				
Casing S 4.5	ize		Weight 9.5		Internal Diameter 4.052		Set at 2948		Perforations 2748		то 2756			
Tubing Si	ize		Weigh 4.7	t	Internal D 1.995		Diameter Set at 2771		Perforations		То	То		
Type Con Single (ı (De	escribe)		Type Fluid Water	d Production	n		Pump Ur Pump	it or Traveling Unit	Plunger? Yes	/ No		
	g Thru	(Anr	nulus / Tubing	3)		arbon Dioxi	ide		% Nitrog		Gas Gra .750	avity - G	i _g	
Vertical D		l)				Pres	sure Taps					Run) (Pr	over) Size	
5424		•				Flan	ge				3			
Pressure	Buildu	p: -	Shut in05/2	20 2	0_13_at_7:	:00	(AM) (PM)	Taken_05	5/21	20	13 at 7:00	(AM) (PM)	
Well on L	ine:		Started	20) at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACI	E DATA			Duration of Shut-	_{in} 24	Hours	
Static / Dynamic	Dynamic Size		Circle one: Meter Prover Pressu	Pressure 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)	
Property Shut-In	(inch		psig (Pm)	Inches H ₂ 0	,	,	psig 97	psia 111.4	psig 38	psia 52.4	24	<u> </u>		
Flow		-			*		91		36	52.4	24			
L	.			L	L	FLOW STR	REAM ATTR	IBUTES	1		<u> </u>	1		
Plate Coeffied (F _b) (F Mcfd	cient	Pro	Circle one: Meter or over Pressure psia	Press Extension √P _m xh	Grav Fact F _c	rity tor	Flowing Temperature Factor F _{ff}	Dev Fa	riation actor = pv	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
				<u> </u>										
(P _c) ² =		_:	(P _w) ² =	·:	•		/ERABILITY % (F) CALCUL ² c - 14.4) +		:		² = 0.2	07	
(P _c) ² - (or (P _c) ² - ((F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop As	ssure Curve pe = "n" - or signed	n x	LOG	Antilog	Deli Equals	en Flow verability R x Antilog	
	· ·			divided by: $P_c^2 - P_w^2$	2 by:		Stand	ard Slope					(Mcfd)	
Open Flo				Mcfd @ 14.	65 psia		Deliverab	oility			Mcfd @ 14.65 ps	ia		
		iane	d authority o		 ' .	states that I		-	n make H	ne ahove ren	ort and that he ha		ledge of	
		•	•				•			-	on and man he ha		-	
			Witness (if any)		KCC V	VICHIT	Ά		For	Company			
			For Comm	nission		II II O	1 2013			Che	ecked by			
						JOF 0	· ZUIJ							

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and that the forego correct to the best of of equipment install	r penalty of perjury under the laws of the state of Kansas that I am authorized to request at Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc. Sing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named. St a one-year exemption from open flow testing for the Campbell 1-15
	unds 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 to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary	to corroborate this claim for exemption from testing.
Date: 06/25/2013	

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. **KCC WICHITA**

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