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## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(	See Instruc	tions on Re	verse Side	·)				
Ор	en Flow			•	Total Date				4 D.I	No. 15	. •		
Del	liverabilt	у			Test Date 5/17/20					No. 15 075-20531	$-(\alpha)($	$\mathcal{Y}$	
Company Chesape		perating, Inc	).	*			Lease Wood					Well Number 5A-29	
County Location Hamilton C NW			Section 29			TWP 24S	,		(W)	V) Acres Attributed			
Field Bradshaw					Reservoir Chase				Gas Gathering Connection DCP Midstream Marketing, L.P.				
Completion Date 4/25/1994			Plug Back Total Depth 2400'					Packer S	Set at		-		
Casing Size Weight 1/2" 10.5#				Internal Diameter					Perfo 233	rations <b>4'</b>	To 2344'	то <b>2344</b> '	
ubing Size Weight 2.3/8" 4.7"			ight	Internal Diameter			Set at 2373'		Perforations		То		
Type Completion (Describe) Single - Gas					Type Flui Water	d Productio			Pump Unit or Travelin Yes. Pump Unit				
Producing Thru (Annulus / Tubing)				· · ·	% C	arbon Diox	ide		% Nitrog	·····	Gas Gr	avity - G <sub>g</sub>	
Annulus Vertical D			····	<b></b>		Pres	ssure Taps	- <del></del>	<del>.</del>		(Meter	Run) (Prover) Si	
5250'													
Pressure	Buildup	: Shut in	/17	2	0_11_at_7	:00 AM	(AM) (PM)	Taken_5/	18	20	11 at 7:00 A	M (AM) (PN	
Well on L	ine:	Started		2	0 at		(AM) (PM)	Taken		20	at	(AM) (PN	
						OBSERVE	ED SURFAC	E DATA			Duration of Shut	in <u>24</u> H	
Static / Dynamic Property	Orifice Size (inches)		r C ssure	e in t		Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		psig (P	m)	nches H <sub>2</sub> 0			psig 92	psia 106.4	psig 62	76.4	24 hrs.		
Flow													
						FLOW STI	REAM ATTR	IBUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h		vity tor	Flowing Temperature Factor F <sub>11</sub>	emperature Factor F		Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	l Gravit	
				<del></del>	(OPEN FL	OW) (DELI)	/ERABILITY	) CALCUL	ATIONS		(0.)	2 0.007	
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> )	2 <u>=</u>	:	P <sub>d</sub> =			P <sub>c</sub> - 14.4) +		:		$t^2 = 0.207$ $t^2 = $	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sup>2</sup> - P <sup>2</sup> LOG of formula 2. P <sup>2</sup> - P d ded by: P <sup>2</sup> - P d by:		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" 		n x i	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				- c w									
Open Flor	w		<u> </u>	1cfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 ps	ia	
		ned authority							o make the		ort and that he h	as knowledge o	
		Witne	ss (if any)				-			For	Company	RECE	

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating Inc.  going 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 allation and/or upon type of completion or upon use being made of the gas well herein named.  The state of Kansas that I am authorized to request the Rule K.A.R. 82-3-304 on behalf of the operator
•	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 to corroborate this claim for exemption from testing.
Date: July 8, 201	Signature:  David 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.

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