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

Type Test	t:			(	See instruct	tions on Re	verse Side	)						
	en Flow			Test Date	);			API I	No. 15					
De	liverabilt	y		4/22/20	11			189	-21024 ~	<u> 0000)</u>				
Company Chesapeake Operating, Inc.				Lease Grothe B			в			1-23	Well Nu	mber		
		Locat C NE	ion Section 23		TWP 33S			RNG (E/W) 35W		Acres Attributed		ttributed		
Field Shuck				Reservoir Mississippi					ering Conn Energy Ser					
Completion Date 5/5/87				Plug Bac 6180	k Total Dept	h		Packer Set at						
Casing Size Welght 5-1/2 15.5		ht	Internal Diamete 4.950		Set at <b>6469</b>		Perforations 5996		то 6012					
Tubing Size 2-7/8		Weigh	ht	Internal Diamete		Set at 5994		Perforations		То				
Type Completion (Describe)				Type Fluid Production				Pump Unit or Travel			ing Plunger? Yes / No			
(Gas) Single Producing This (Annulus / Tubing			g)	Saltwater % Carbon Dioxide			Plunger  white Street Street Plunger  white Street			Gas Gravity - G		<u> </u>		
Tubing Vertical D 6475	Depth(H)				Press	sure Taps		···		(Meter	Run) (Pi	rover) Size		
Pressure	Buildup:	Shut in	22 20	11 at 0	7:00	(AM) (PM)	Taken_4/	23	20	11 at 07:00	(	(AM) (PM)		
										at (AM)				
					OBSERVE	D SURFAC	E DATA			Duration of Shut	in_24	Hour		
Static / Dynamic Property	Orifice Size (inches	Meter Prover Press	I I	Temperature Temper		ature (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>9</sub> )		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In		paig (i wy	menes 11 <sub>2</sub> 0	-		146	160.4	146	160.4	24	_			
Flow														
					FLOW STR	EAM ATTR	IBUTES							
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Mater or  Prover Pressure  psla  Press Extension  Pmxh		Gravity Factor F <sub>g</sub>		Flowing Femperature Factor F <sub>tt</sub>	Fa	iation ctor : py	Metered Flov R (McId)	v GOR (Cubic Fe Barrel)	e <b>e</b> t/	Flowing Fluid Gravity G <sub>m</sub>		
			J	/OBEN EL	OW) (DELIV	EDARII ITV	) CALCIII	ATIONS				<u> </u>		
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>*</sub> ) <sup>2</sup> =	=:	P <sub>d</sub> =	, ,		) CALCOL P <sub>e</sub> - 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	) <sup>2</sup> = 0.2 ) <sup>2</sup> =	07		
(P <sub>p</sub> ) <sup>2</sup> - ( or (P <sub>e</sub> ) <sup>2</sup> - (	•	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> LOG of formula 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 1, or 2. and divide		Slo As	essure Curve pe = "n" - or signed lard Slope	nxL	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)			
											_			
Open Flo	Dpen Flow Mcfd <b>⊕</b> 14.65 psia				Deliverability				Mcfd <b>②</b> 14.65 psia					
The	undersig	ned authority, o	on behalf of the	Company, s	states that h	e is duly a	uthorized t	o make the	above repo	ort and that he ha	as know	ledge of		
he facts s	stated the	erein, and that s	aid report is true	and correc	t. Executed	this the 8	th	day of <u>Ju</u>	ly		,	20 <u>11</u>		
		Witness	(il eny)			-			For	Company	RF	CEIVE		
		For Come	mission			•			Che	tked by				
											SEP	062		

KCC WICHITA

l declare und	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, Inc
	going pressure information and statements contained on this application form are true and
	t 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.  est a one-year exemption from open flow testing for the Grothe B 1-23
	rounds that said well:
(Chec	( one)
(3//33/	is a coalbed methane producer
<b>√</b>	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: July 8, 20	1
	Signature: D.J. WA.

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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