KCC MICLIE

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

Type Test	::				6	See Instruc	tions on Re	verse Side	)						
Op	en Flor	w							4.51						
De	liverab	ilty			Test Date 8/2/2011					No. 15 )75 <b>-20697</b> -	$-\Omega\Omega$	$\gamma$			
Company Chesapeake Operating, Inc.					Lease Thurow				Well Number 2-11						
County Hamilton	County Hamilton		Locati N/2 SE		Section 11		TWP 23S		RNG (EA	<b>(</b> )		Acres Attributed			
Field Bradshaw					Reservoir Chase			Gas Gathering Conne Chesapeake Energ							
Completic 2/8/1999		е			Plug Bacl 2615'	k Total Dep	th		Packer S	et at					
Casing Size 4 1/2"			Weigh 10.5#		Internal C	Diameter	Set : 263		Perfor 255	ations		то 2571'			
Tubing Size 2 3/8"			Weigh 4.7#	t	Internal D	Internal Diameter		Set at 2624'		ations	То				
Type Con Single -					Type Flui	d Productio				it or Traveling ump Unit.	Plunger?	Yes	/ No		
Producing	g Thru		nulus / Tubing	3)		arbon Diox	ide		% Nitroge			Gas Gra	ıvity - C	· · · · · · · · · · · · · · · · · · ·	
Annulus Vertical D 2630'		l)				Pres	ssure Taps					(Meter P	lun) (Pi	over) Size	
•	Buildu	p: :	Shut in 8/2	2	0_11_at_7:	00 AM	(AM) (PM)	Taken_8/	3	20	11 at 7	7:00 Af	<u>м</u> (	AM) (PM)	
Well on L	.ine:	:	Started	20	0 at		(AM) (PM)	Taken		20	at _		(	AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration	of Shut-i	24	Hours	
Static /	Orifi	Ce	Circle one:	Pressure	Flowing	Well Head	Ca	sing	1	ubing			1	· · · · ·	
Dynamic Property	Siz-	0	Meter Prover Pressu psig (Pm)	Differential in Inches H <sub>2</sub> 0	Temperature t	Temperature t	· I	Pressure P <sub>1</sub> ) or (P <sub>c</sub> ) psia	1	nd Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Durai (Hou			d Produced Barrels)	
Shut-In							56	70.4	85	99.4	24 hrs				
Flow															
						FLOW STR	REAM ATTE	IBUTES		•					
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient ,)	Pro	Circle one: Meter or ever Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fact	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	ation ctor	Metered Flow R (Mcfd)		GOR Cubic Fee Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>	
L					(OPEN FL	OW) (DELIV	/ERABILITY	) CALCUL	ATIONS		l	(P )²	= 0.2	D7	
(P <sub>c</sub> ) <sup>2</sup> =		<u>_:</u>	(P <sub>w</sub> ) <sup>2</sup> =	<del></del> :	P <sub>d</sub> =		% (	P <sub>c</sub> - 14.4) +	14.4 =	:		(P <sub>d</sub> ) <sup>2</sup>			
(P <sub>o</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>o</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup>		(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</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>a</sub> <sup>2</sup>	I. 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	ressure Curve ope = "n" nor Assigned ndard Slope		.og [ ]	Antil	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
	. ]														
Open Flo	w			Mcfd @ 14.	65 psia		Deliveral	oility	•		Mcfd @ 1	4.65 psia	a		
		-	•	n behalf of the			,		0.	e above repo eptember	ort and tha	it he has		•	
the facts s	itated ti	nerei	n, and that sa	aid report is true	and correc	t. Executed	this the	1	day of			7	· '	20 .11 .	
	· · ·		Witness (	f any)	•	<del>.</del>	•		(	For	Company	REC	EIVE	מ	
			For Comm	vission			•			Che	cked by	OCT		_	

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt	status under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.
and tha	t 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
	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
The	reby request a one-year exemption from open flow testing for the
gas wel	Il 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
	To hot supuble of producing at a daily rate in excess of 200 months
l fu	rther agree 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: 9	9/21/2011
Date	
	Signature: DNC
	Title: Erin Carson, Regulatory Compliance Analyst
	Time.

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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KCC WICHITA