## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				(	See Instruc	tions on Re	verse Side	)					
Op	en Flo	w			Test Date	<b>.</b> .			ADI	No. 15				
De	liverab	ilty			4/2/201				129	9-20834	$\alpha \alpha \alpha \alpha \beta$			
Company Chesapeake Operating, Inc.					<sub>Lease</sub> Haymaker						Well Number 1-28			
County Morton			Location C E/2 NW		Section 28		TWP 32		RNG (E/W) 42W		Acres Attributed		ttributed	
Field Kinsler			Reservoir Morrov				Gas Gathering Co Anadarko		ection					
Completion Date 12/12/86					Plug Back Total Dept 5045		th	Packer 4821		et at				
Casing Size 5 1/2			Weigh 15.5	it	Internal Diameter 4.950		Set at 5078		Perforations 4916		To 4936	To 4936		
Tubing Size 2 3/8			Weigh	it	Internal Diameter 1.995		Set at 4821		Perforations		То	То		
Type Completion (Describe)				Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Pump Unit							
		(Anı	nulus / Tubing	g)	% 0	arbon Diox	ide		% Nitrog		Gas G	ravity - (	· · · · · · ·	
Tubing Vertical E 4926	Depth(H	<del>1</del> )				Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildu	p:	Shut in 4/2		11 at 8		(AM) (PM)	Taken 4/	3	20	11 at 8	(	AM) (PM)	
Well on Line:			Started 20		0 at					20	at	(		
						OBSERVE	D SURFAC	F DATA			Duration of Shu	.i. 24	Hours	
Static / Orifice Dynamic Size		0	Circle one: Meter Prover Pressu	Pressure Differential in	Flowing Temperature	Well Head Temperature	Casing Wellboard Pressure		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>s</sub> ) or (P <sub>s</sub> )		Duration (Hours)	Liquid	Liquid Produced (Barrels)	
Property	Property (inche		psig (Pm)	Inches H <sub>2</sub> 0	t	t	psig	psla	psig	psia	osia		,	
Shut-In							45	59.4	10	24.4	24			
Flow														
						FLOW STE	REAM ATTR	IBUTES						
Plate Coefficient (F,) (F,) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Extension Fact		tor Temperature		ation ctor	Metered Flov R (McId)	v GOR (Cubic F Barre	oet/	Flowing Fluid Gravity G <sub>m</sub>	
				]				<u> </u>						
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FL		<b>'ERABILITY</b> % (F	) CALCUL <sup>2</sup> , - 14.4) +		:		) <sup>2</sup> = 0.2 ) <sup>2</sup> =	07	
$(P_e)^2 - (P_a)^2$ or $(P_e)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>u</sub> ) <sup>2</sup>		Choose formula 1 or 2  1. P <sub>0</sub> <sup>2</sup> - P <sub>2</sub> <sup>2</sup> 2. P <sub>0</sub> <sup>2</sup> - P <sub>0</sub> <sup>2</sup> divided by: P <sub>0</sub> <sup>2</sup> - P <sub>0</sub>	LOG of formula 1, or 2. and divide	P 2 . P 2	Backpressure Curve Slope = "n"		ńχί	.og [ ]	Antilog	Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w	•		Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd <b>②</b> 14.65 ps	sia		
The i	unders	igned	d authority, o	n behalf of the	Company, s	states that h	ne is duly au	uthorized to	make th	e above repo	rt and that he h	as know	ledge of	
				aid report is true					day of _U				20 11 .	
			Witness (	f any)			-			For (	Company	DEA		
			For Comm	ission			-			Chec	cked by	KEU	EIVED	
												SFP	N 6 2011	

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exempt status under and that the forego correct to the best of of equipment instal	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Incoing 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 lation 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 Haymaker 1-28 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 to corroborate this claim for exemption from testing.
Date: <u>July 8, 2011</u>	Signature:  Title: 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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