Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	:				((See Instructions on Reverse Side)							
Open Flow				Toet Date	Test Date: API No. 15								
De	liverab	ilty			4/21/20					129-20834 -	-0000		
Company Chesapeake Operating, L.L.C.						_{Lease} Haymaker					Well Number 1-28		
County Morton			Locatio 3300 FSI	on . & 4290 FEL	Section 28		TWP 32		RNG (E/ 42W	W)	F	Acres Attributed	
Field Kinsler					Reservoir Morrow	•			Gas Gat Anada		ection		
Completic 12/12/8		е		Plug Back Total De 5045			th	Packer Set at -4821		et at			
Casing S 5 1/2	ize		Weight		Internal E 4.950)iameter	Set a 5078		Perfo 491	rations	то 4936	· · · · · ·	
Tubing Si	ize		Weight	-	Internal D	iameter	Set a		Perfo	rations	То		
Type Completion (Describe) Single Gas				Type Fluid Production				Pump Ur Pump		Plunger? Yes / No			
Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide			% Nitrogen		Gas Gravity - G			
Tubing Vertical Depth(H)					Pressure Taps						(Meter F	Run) (Prover) Size	
4926													
Pressure Buildup: Shut in 4/20			0.15 at 8	:00	. (AM) (PM)	(AM) (PM) Taken <u>4</u> /		20	15 at 8:00	(AM) (PM)			
Well on L	ine:		Started	2	0 at	•	(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	ED SURFACI	E DATA			Duration of Shut-i	n 24 Hours	
Static / Dynamic Property	Orifi Siz (inch	0	Circle one: Meter Prover Pressu		Flowing Temperature t	Well Head Temperature	Cas Weilhead (P _w) or (P	Pressure	Wellhe	ubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	(,,,,,,,,,,		psig (Pm)	Inches H ₂ 0			psig 71	psia 85.4	psig 0	psia 14.4	24		
Flow				-									
				<u> </u>		FLOW ST	REAM ATTR	BUTES					
Plate Coefficcient (F _b) (F _p) Mofd		Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P _m x h	Extension Fact		Flowing Temperature Factor F ₁₁	Fa	lation ctor - pv	Metered Flow R (Mcfd)	w GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m	
(D \2	(OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_a)^2 = 0.207$ $(P_c)^2 = : P_d = : P_d = : (P_d)^2 $												
				Choose formula 1 or 2	*			ssure Curse		г ¬	V. a/	Open Flow	
$(P_c)^2 - (P_d)^2$ or $(P_c)^2 - (P_d)^2$		2		1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	1. p 2 1. or 2.		Slopeor P _c ² -P _w ² Standard		n x	Log	Antilog	Deliverability Equals R x Antilog (Mcfd)	
				or w									
Open Flow			Mcfd @ 14.65 psia Deliverability						Mcfd @ 14.65 psia				
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the													
				•		Red	ceived						
			Witness (i	any)	KAI		RATION COMMIS	POICH	•	For	Сотралу		
DEC 0 2 2015									Che	cked by			

CONSERVATION DIVISION WICHITA, KS

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to requeste exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, L.L.C. and that the foregoing pressure information and statements contained on this application form are true correct to the best of my knowledge and belief based upon available production summaries and lease record equipment installation and/or upon type of completion or upon use being made of the gas well herein named thereby request a one-year exemption from open flow testing for the Haymaker 1-28	and ords
gas well on the grounds 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	
I further agree to supply to the best of my ability any and all supporting documents deemed by Comm	ission
staff as necessary to corroborate this claim for exemption from testing.	
Date: 11/2/2015	
Signature: Sara Everett, Regulatory Analyst	_ _

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.

and M