KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flov	W			(See inst	ruct	ions on Re	verse Side	יי						
Deliverabilty						Test Date: 10/5/2010					API No. 15 033-20963 - OOO					
Company Chesap		Ор	perating, In	c .				Lease Pyle			<u> </u>		4-13	Well N	ımber	
County Location Comache SW/4				Section 13			TWP 31S		RNG (E/W) 18W		Acres		Acres	Attributed		
Field Wilmore					Reservoir Mississippi				Gas Gathering Connection OneOk Energy Service							
Completion Date 9/21/98					Plug Back Total Depth				Packer Set at			·		•		
Casing Size Weight 5.5 15.5				Internal Diameter 4.950			Set at 4976		Perforations 4966			то 4992				
Tubing Size Weight					Internal Diameter			Set at		Perforations			To To			
2.375 4.7 Type Completion (Describe)				Type Flui	1.995 Type Fluid Production			4958		Init or Travelin	g Pli	Plunger? Yes / No				
•	Thru	(Anr	nulus / Tubing)		Water % C	Carbon D	ioxid	de		No % Nitro	gen		Gas Gr	avity -	G ₀	
Tubing Vertical Depth(H) 5720				Pressure Taps				.60 (Met 2.0				er Run) (Prover) Size				
Pressure	Buildur	p: :	Shut in	2	10 at 7			(AM) (PM)	Taken_1()/6	20	1(0 at 7		(AM) (PM)	
				20 at												
						OBSEF	(VE	D SURFACI	E DATA			Du	ration of Shut-	_{In} 24	Hours	
Static / Dynamic Property	Orific Size (inche	9	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H,0	Flowing Well Head Temperature t t		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _p)		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In	Shut-In		p	menes rigo			psig 30		psia 44.4	psig 2	16.4	24				
Flow																
						FLOW S	STR	EAM ATTR	IBUTES					-		
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Grav Fac F	tor	1 Tomosecture		Deviation Factor F _{pv}		Metered Flow R (McId)		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
					(OPEN FL	OW) (DE	LIVI	ERABILITY)) CALCUL	ATIONS	<u> </u>		(P.)	·= 0.2	207	
(P _e)² =		_:	(P _w) ² =		P _d =		°	6 (F	<mark>- 14.4) +</mark>	14.4 = _	:		(P _d)			
$(P_c)^2 - (P_a)^2$ or $(P_e)^2 - (P_a)^2$		(P _e) ² - (P _w) ²		1. P ₀ ² - P ₂ ² 2. P ₂ ² - P ₃ 4. LOG of formula 1. or 2. and divide by: P ₂ ² - P ₂ ² by:		P _c ² -P _*	P2-P2		kpressure Curve Slope = "n" or Assigned tandard Slope		LOG [Antilog		Open Flow Deliverability Equals R x Antilog (McId)		
								-								
Open Flov	<u> </u>			Mcfd @ 14.	65 psia			Deliverab	ility		- · · · · ·	Mcf	d @ 14.65 psi	 a		
			authority, on								he above repo	ort a	and that he ha		rledge of 20	
			Witness (if a	ny)	···		_	-			For	Сотр	any		RECEIVI	

	er 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, Inc
and that the foregone correct to the besion of equipment instance I hereby requals	oing 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. Lest a one-year exemption from open flow testing for the Pyle 4-13 counds 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.
	Signature: David Wilst, 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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DEC 0 6 2010

KCC WICHITA