KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	ctions on Re	verse Side	e)					
√ Op	en Flov	٧			T4 D-4-		÷			No. 45				
Deliverabilty					Test Date: 10/17/2013				API No. 15 15-189-21621 <i> 0000</i>					
Company Chesapeake Operating, Inc.					Lease Alderman				Well Number 3-11				umber	
County Location Stevens 1980' FNL & 660' FWL				Section 11		TWP 33S			/W)		Acres Attributed			
Field Northwoods SE						Reservoir Morrow			Gas Gathering Connection OneOk Energy Services					
Completion Date P					Plug Bac 6050'	Plug Back Total Depth 6050'				Set at				
	asing Size Weight			Internal 0 4.950	Diameter		Set at 6300		orations 2	To 5962				
	ubing Size Weight			Internal I	Diameter	Set at 6003		Perforations		То		•		
Type Completion (Describe) Gas						Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No Pump Unit					
Producing Thru (Annulus / Tubing)					% C	% Carbon Dioxide			% Nitrogen Gas Gravity - G ₉			G _g		
Annulus Vertical D)				Pressure Taps					.642 (Meter		Prover) Size	
6300 Brassura			Shut in	7	13 , 0	7:00 ·	(AM) (DM)	Tokon 1	0/18		12 _{at} 07:00	· · ·	(AM) (PM)	
Well on L	•										at			
						OBSERVE	ED SURFAC	E DATA			Duration of Shu	11-in 24	Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liqu	Liquid Produced (Barrels)	
Shut-In			Fo.3 ()	110100 120			psig 60	74.4	psig 0	14.4	24	v		
Flow						•								
						FLOW STI	REAM ATTR	RIBUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Prover Pressure		Press Extension ✓ P _m x h	Factor		Flowing Temperature Factor F ₁₁	F	viation actor F _{pv}	Metered Flor R (Mcfd)	w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
					(OPEN EL	OW/ (DELA)	VED A DH. ITY	0.000.000	. ATIONS	·				
P _c) ² =		_:	(P _w) ² =_		P _d =		VERABILITY _%(P _c - 14.4) -		 :		$(a)^2 = 0.3$ $(a)^2 = 0.3$	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1.		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ fivided by: $P_c^2 - P_w^2$	P ² -P ² LOG of formula P ² -P ² 1. or 2. and divide		Backpressure Curve Slope = "n"or Assigned Standard Slope		l n v	LOG	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
												ļ		
Open Flow		Mcfd @ 14.6		5 psia		Deliverability		, ,		Mcfd @ 14.65 p	sia			
 		gned	d authority, on			states that I			to make t		ort and that he h		wledge of	
		-	•	id report is true			•		•	•			20 13	
											· · · · · · · · · · · · · · · · · · ·	KCC	WICH	
			Witness (if	any)						Fore	Company	חבר	` 4 2 204	
			For Commis	ssion			-			Che	cked by	שבנ	? 12 20 1	
												_	COCK C	

I declare 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 that 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 of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Alderman 3-11
gas well 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
I further 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: _12/11/2013
Signature: Title: Sarah Rodriguez, 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.

DEC 12 2013

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