KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes			J		(See Instruc	ctions on Re	verse Side	;)			
✓ Open Flow Deliverabilty				Test Date: 7/19/2014			API No. 15 15-189-20490 - 0000					
Company Chesapeake Operating, L.L.C.				Lease Brown I			K Unit			2-9	Vell Number	
County Location Stevens 3960 FSL & 3960 FEL			Section 9		TWP 33S			W)	F	Acres Attributed		
Field Walkemeyer					Reservoir Morrow				Gas Gathering Conr OneOk Field Servi			
Completi 7/17/80		te			Plug Back Total Depth 6177		oth		Packer S	iet at		
Casing S 5 1/2	Size	Weight			Internal Diameter		Set at 6200		Perforations 6012		то 6022	
Tubing Size			Weight		Internal Diameter		Set	Set at Perfe		rations	То	
Type Completion (Describe) Gas					Type Fluid Production			Pump Unit or Traveling Plunger			Plunger? Yes	/ No
Producing Thru (Annulus / Tubing) Casing				% Carbon Dioxide				% Nitrog	en	Gas Gravity - G _g		
Vertical D	Depth(H	1)				Pres	ssure Taps				(Meter F	lun) (Prover) Size
Pressure	Buildu	p:	Shut in 7/1	8 2	0 14 at 8	:00	(AM) (PM)	Taken 7/	19	20	14 _{at 8:00}	(AM) (PM)
Well on L	_ine:		Started	2	0 at		. (AM) (PM)	Taken			at	(AM) (PM)
-	,					OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n_24 Hours
Static / Orifice Dynamic Size Property (inches		е	Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential in Inches H ₂ 0	Temperature Temperature		Wellhead (P _w) or (F			ubing ad Pressure (P ₍) or (P _o)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In							122	136.4	122	136.4	24	
Flow						EL OW CE	DEAM ATTO	IBUTEO				
Plate	, 1		Circle one:	Press	Т.		REAM ATTR					Flowing
Coeffictient (F _b) (F _p) Mcfd		Pro	Meter or over Pressure psia	Extension P _m xħ	Gravity Factor F _g		Temperature Factor	emperature Eactor		Metered Flov R (Mcfd)	y GOR (Cubic Fee Barrel)	Chista -
									-			
					•	• •	/ERABILITY	•				= 0.207
(P _c) ² =	 i	<u>-:</u>	(P _w)² ≃	Choose formula 1 or 2	P _d =			° _c - 14.4) +	14.4 =		(P _d) ²	<u>=</u>
(P _e) ² - (I or (P _e) ² - (I	ľ	(F	P _c) ² - (P _w) ²	 P_o² - P_a² P_o² - P_d² divided by: P_o² - P_d² 	LOG of formula 1. or 2. and divide by:	P.2 - P.2	Śloj As	ssure Curve pe = "n" - or signed ard Slope	nxL	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mofd)
Open Flo				Motel @ 14	©E paio	_	Deliversh	1818			Matal @ 44 CE mile	
		ana	d outbority o	Mcfd @ 14.	•	taton that h	Deliverab		males th		Mcfd @ 14.65 psia	
		_	-	aid report is true			-			-	rt and that he has	, 20 <u>15</u>
			Witness (I	f any)		F KANSAS CORI	Received PORATION COM	MISSION		For C	ompany	
			For Comm	ission		AUL	1 2 9 20	15		Chec	ked by	

CONSERVATION DIVISION WICHITA, KS

exempt status under Rule K.A.R. 82-3-304 and that the foregoing pressure informati correct to the best of my knowledge and b	der the laws of the state of Kansas that I am authorized to request on behalf of the operator Chesapeake Operating, L.L.C. ion and statements contained on this application form are true and relief 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.								
	n from open flow testing for the Brown K Unit 2-9							
gas well on the grounds that said well:								
(Check one)								
is a coalbed methane p	producer							
is cycled on plunger lif	is cycled on plunger lift due to water							
is a source of natural g	gas for injection into an oil reservoir undergoing ER							
is on vacuum at the pre	esent time; KCC approval Docket No							
is not capable of produ	ucing at a daily rate in excess of 250 mcf/D							
I further agree to supply to the best o staff as necessary to corroborate this clai	f my ability any and all supporting documents deemed by Commission im for exemption from testing.							
Date: _5/11/2015								
	_							
Received KANSAS CORPORATION COMMISS	Signature:							
JUN 2 9 2015								
CONSERVATION DIVISION WICHITA, KS								

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.