KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(See msnac	MONS ON HE	6126 0106	7 /				
	en Flov liverabi				Test Date 8/20/20				API 15-	No. 15 077-21313 -	0000		
Company		per	ating, L.L.C	_			Lease Donald	Muir G	U		2-16	Well Number	
			Location 670 FSL	on & 1650 FWL	Section 16			TWP 31S		/W)	Acres Attributed		
Field Spivey-	-Grab	s	_		Reservoir Mississ				Gas Gathering Co OneOk Field Se				
Completic 2/9/97	on Date	9			Plug Bac 4748	k Total Dep	oth		Packer \$	Set at			
Casing S 5.5	ize		Weight 14.0		Internal Diameter 5.012		Set at 4807		Perforations 4470		то 4499		
Tubing Si 2.375	ize	Weight 4.7		Internal Diameter 1.995		Set at 4480		Perforations		То			
Type Con Single () (De	escribe)		Type Flui Water	d Productio	on		Pump Ui Pump	nit or Traveling Unit	Plunger? Yes	/ No	
Producing Annulus	-	(Anr	nulus / Tubing)	% C	arbon Diox	ide		% Nitrog	jen	Gas Gr 0.642	avity - G _g 2	
Vertical D	epth(H)	·			Pres Flan	ssure Taps				(Meter I	Run) (Prover) Size	
Pressure	Buildur	p:	Shut in8/19)2	15 at 8		. (AM) (PM)	Taken_8/	20	20	15 at 8:00	(AM) (PM)	
Well on L	.ine:		Started	2	0 at		(AM) (PM)	Taken			at	(AM) (PM)	
,						OBSERVE	ED SURFACE	DATA	<u>-</u>		Duration of Shut-	in 24 Hour	
Static / Dynamic Property	nic Size		Circle one: Meter Prover Pressu: psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In							60	74.4	70	84.4	24		
. Flow												<u></u>	
						FLOW ST	REAM ATTR	BUTES					
Plate Coeffictient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Grav Fac F	tor	Tomporatura		riation actor F _{pv}	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity	
(P _c) ² =		,	(P)²=	<u>·</u> :	-		VERABILITY) % (F	CALCUL 2 - 14.4) +				² = 0.207	
(P _c) ² -(l or (P _c) ² -(l	P _a) ²		P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ tivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide		Backpres Slop Ass	ssure Curve be = "n" or signed ard Slope	3 n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
-				· · · · · · · · · · · · · · · · · · ·									
Open Flo	w		I	Mcfd @ 14	I .65 psia	u <u>=</u>	Deliverab	ility	<u>I</u>		Mcfd @ 14.65 ps	ia	
The	undersi	_	-	behalf of the					to make the		ort and that he ha	as knowledge of	
			Witness (if	any)		OCT 2	6 2015			For	Company		
			For Commi	ssion		REC	CEIVED		<u>-</u>	Che	cked by		

V	e 1860 - Communication of the								
	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request								
	der Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, L.L.C.								
	going pressure information and statements contained on this application form are true and								
•	t 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.								
l hereby requ	est a one-year exemption from open flow testing for the Muir, Donald 2-16								
gas well on the gr	ounds that said well:								
(Check	cone)								
	is a coalbed methane producer								
H	is cycled on plunger lift due to water								
H	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								
<u> </u>	is not capable of producing at a daily rate in excess of 250 mcf/D								
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commissic								
staff as necessar	y to corroborate this claim for exemption from testing.								
Date: 10/21/2015	;								
									
	-								
	 S								
	Signature: Son a Event								
	Signature: Son a Every Title: 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.