KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: .				(See Instruct	tions on Rev	erse Side)					
✓ Open Flow					Tool Date	Test Date: API No. 15								
Deliverabilty						Test Date: API No. 15 9/10/2015 15-189-21241 -								
Company Chesapeake Operating,L.L.C.						_{Lease} William Mast B					Well Number 1-24			
County Location Stevens 4043 FSL & 1250 FEL				Section TWP 24 31S				RNG (E/W) 36W		Acres Attributed				
Field Hugoto	n				Reservoir Morrov					nering Conne dstream Mai		:		
Completic 9/15/48)			Plug Bac 6133	k Total.Dept	th ·		Packer S	et at				
Casing Si 5.5	ize		Weight 14		Internal Diameter 5.012		Set at 6200		Perforations 5612		то 5624			
Tubing Size 2.375			Weight 4.7		Internal Diameter 1.995		Set at 5612		Perforations .		То			
Type Con Gas	npletion	(De	scribe)		Type Fluid Production Water		1		Pump Unit or Traveling P Pump Unit		Plunger? Yes / No			
_	_	(Ann	ulus / Tubing)	% C	% Carbon Dioxide				% Nitrogen		Gas Gravity - G		
Annulus						D	-	· L		-	/h.a.a)\ /D\ O!		
Vertical D 6200	eptn(H)	ı				sure Taps		ē			Run) (Prover) Size		
Pressure	Buildup); S	Shut in <u>9/9</u>	2	15 at 8	:00	(AM) (PM)	Taken_9/	10	20 .	15 at 8:00	(AM) (PM)		
Well on L	.ine:	8	Started	2	0 at		(AM) (PM)	Taken		20 .	at	(AM) (PM)		
						OBSERVE	D SURFACI	E DATA			Duration of Shut-i	in 24 Hours		
Static / Dynamic Property	Orific Size (inche	,	Circle one: Meter Prover Pressui psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P _w) or (P	Pressure	Wellhea	ubing ad Pressure (P _t) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In							34	48.4	0	14.4	24			
Flow									,	<u> </u>		<u> </u>		
			·			FLOW STF	REAM ATTR	IBUTES						
Plate Coeffiec (F _b) (F Mofd	ient p)		Circle one: Meter or ver Pressure psia	Press Extension P _m xh	Grav Fac	tor	Flowing Temperature Factor F _{ft}	Fa	riation actor pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m		
				•										
(P _c) ² =			(P _w) ² =		(OPEN FL P _d ≠		'ERABILITY % (F) CALCUL ° _e - 14.4) +			(P _a) ⁽ (P _d)	2 = 0.207 2 =		
(1-6) -=	Ī			Choose formula 1 or 2							(' 4/			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P	。) ² - (P _w) ²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Sivided by: $P_c^2 - P_w$	p 2 1. or 2 and divide p 2.		Backpressure Curv Slope = "n" or Assigned Standard Slope		ln x lOG		Antilog	Open Flow Deliverability Equals R x Antilog (Motd)		
				- c w				-				·		
_														
Open Flo	w			Mcfd @ 14	.65 psia		Deliverab	ility			//cfd @ 14.65 psi	a		
•		~ .	•	behalf of the			-				t and that he ha	s knowledge of, 20 <u>15</u>		
							Received	VIMISSION						
			Witness (if			nf	C 0 2 20	15			ompany			
			For Comm	ceinn			~ ~ ~ ~ ~ ~ ~			Chac	ked hv .			

CONSERVATION DIVISION WICHITA, KS

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, L.L.C. 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 William Mast B 1-24
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.
D 4 11/16/2015
Date: _11/16/2015
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.