KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				('See Instruc	tions on Re	verse Side))					
√ Op	oen Flo	w			Test Date	.,			ΛĐI	No. 15				
De	liveral	oilty			7/8/201					129-20655 •	-0000			
Company Chesapeake Operating, L.L.C.						Lease Hayward			Well Number 1-20					
County Location Morton 660 FSL & 1980 FWL					Section 20				RNG (E/W) 40W			Acres Attributed		
Field Kinsler					Reservoi Morrov					thering Conn lidstream Ma		K	CC WI	
Completion 4/25/83		te			Plug Bac 5515	k Total Dep	th		Packer S	Set at		JU	N 05 2	
Casing S 7.0	ize		Weigh 20.0	nt	Internal I 6.456	Diameter	Set 569		Perfo 500	rations 9	To 5022	R_{ℓ}	CC WIG N 05 20 ECEIVE	
Tubing S 2.875	ize		Weigh	nt .	Internal (2.441	Diameter	Set 511		Perfo	rations	То			
Type Completion (Describe) Gas					Type Flui Oil	Type Fluid Production Oil			Pump Unit or Traveling Plunger? Yes / N					
Producing Thru (Annulus / Tubing)					% C	% Carbon Dioxíde				% Nitrogen Gas G			ravity - G _g	
Annulus Vertical E						Proc	sure Taps				/Motor F	Bun\ /Dv	aves Cize	
5700	zepun,	7/				ries	sure raps				(meter t	ורא) (נוטר	over) Size	
Pressure	Builde	ıp:	Shut in 7/7		14 at 8	:00	. (AM) (PM)	Taken_7/	8	20	14 at 8:00	(#	AM) (PM)	
Well on L	.ine:		Started		0 at		(AM) (PM)	Taken		20	at	(/	AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	_{in_} 24	Hours	
Static / Dynamic Property	Orif Sta	18	Circle one: Meter Prover Pressi	Pressure Differential in	Flowing Temperature t	Well Head Temperature	! [sing Pressure P _r) or (P _e)	Wellhe	Tubing ad Pressure r (P _t) or (P _c)	Duration (Hours)	Liquid	Produced arrels).	
Shut-In	(111011	-	psig (Pm)	Inches H ₂ 0	•	'	psig 5	psia 19.4	psig 0	psia 14.4	24	 		
Flow	-							1				-		
			•			FLOW STR	REAM ATTR	IBUTES	l.			<u> </u>		
Plate Coeffied (F _b) (F Mofd	ient p)	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m ×h	Grav Fact F _c	tor	Flowing Temperature Factor F _{II}	Fa	iation ctor : pv	Metered Flow R (Mcfd)	y GOR (Cubic Fer Barrel)	et/	Flowing Fluid Gravity G _m	
													•	
(D.)2 —			/D \2		•	• •	'ERABILITY % (F	•			•	= 0.20	7	
(P _c) ² =			(P _w) ² =	Choose formula 1 or 2				2 _c - 14.4) +	T ·	==	(P _d) ²	_		
(P _a) ² - (F or (P _a) ² - (F	P _a) ²	(F	° _o)²- (P _w)²	 P_c² - P_a² P_c² - P_d² divided by: P_c² - P_d² 	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Š1o,	ssure Curve pe = "n" - or signed ard Slope	l n x i	LOG	Antilog	Deliv Equals	en Flow rerability R x Antilog Mcfd)	
						,								
0 5				N-41 0 44		_								
Open Flor			-	Mcfd @ 14.			<u>D</u> eliverab	-			Mcfd @ 14.65 psi			
				n behalf of the			=			-	rt and that he ha		_	
			Witness (i	any)			-			For C	Company	_	•	
			For Comm	ission ,	_		-			' Chec	ked by			

	er penalty of perjury under the laws of the state of Kansas that I am author	-
exempt status und	ler Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating,	L.L.C.
_	joing pressure information and statements contained on this application f	
	of my knowledge and belief based upon available production summaries a	
• •	allation and/or upon type of completion or upon use being made of the gas w	ell herein named.
I hereby requ	est a one-year exemption from open flow testing for the Hayward 1-20	
gas well on the gr	ounds that said well:	1.0
(Charle		KCC WICH JUN 05 2015 RECEIVED
(Check	is a coalbed methane producer	JUN OF
片	is cycled on plunger lift due to water	RED 2015
H	is a source of natural gas for injection into an oil reservoir undergoing ER	CEIVED
H	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	e to supply to the best of my ability any and all supporting documents deen	ned by Commission
staff as necessar	to corroborate this claim for exemption from testing.	
Date: 5/11/2015		
Date: <u>5/11/2015</u>	·	
Date: <u>5/11/2015</u>		
Date: <u>5/11/2015</u>	· · · · · · · · · · · · · · · · · · ·	
Date: <u>5/11/2015</u>	Signature: Katu wmam	k
Date: <u>5/11/2015</u>	Signature: <u>Kutu www</u> Title: Katie Wright, Regulatory Analyst	<u> </u>

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.