## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: ,				(	See Instruct	ions on Re	verse Side	e)					
Op	en Flo	w	•		Took Date				A DI	No. 15	_			
De	liverab	iity			Test Date 6/10/20					No. 15 9 <b>20655~ (</b>	$\infty$	)		
Company Chesap		e Op	perating, In	с.			Lease Haywa	ard				1-20 We	Il Number	
County Location  Morton C SE SW			Section 20		TWP 31S		RNG (E/W) 40W		Acres Attributed					
leld Kinsler					Reservoir <b>Morrov</b>			-		thering Conn lidstream Ma		P		
ompletic		е			Plug Bac 5515	k Total Dept	h		Packer §	Set at	•			
asing Si	ize		Weight 20.0		Internal D 6.456	Diameter	Set : <b>569</b>		Perfo	rations 9		то 5022		
ubing Si .875	ize		Weight 6.5		Internal E 2.441	Diameter	Set : <b>511</b>		Perfo	rations	•	То		
ype Com	npletio	n (De	escribe)		Type Flui Oil	d Production	<u>                                     </u>		Pump U	nit or Traveling Unit	Plunger?	Yes /	No	
Producing Thru (Annulus / Tubing)				, % C	% Carbon Dioxide				% Nitrogen Gas Gravity - G <sub>g</sub>					
nnulus ertical D		<del>1</del> )				Press	sure Taps	·				(Meter Rur	n) (Prover) Size	
700			6/10		10 1	1		6/	11		10 . 1	11	(AM) (PM)	
ressure /ell on L		•												
						OBSERVE	D CUREAC	E DATA	**· <u>*</u>	****	Duration	of Shut-in	(AM) (PM)	
Static / ynamic	Orifi Siz	e	Circle one: Meter Prover Pressul	Pressure Differential e in	Flowing Temperature t	Well Head Temperature	Ca: Wellhead	sing I Pressure	Wellhe	Tubing ead Pressure or (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration of Duration of Chou	tion	Liquid Produced (Barrels)	
Property Shut-In	(inch	es)	psig (Pm)	Inches H <sub>2</sub> 0			psig 12	psia 26.4	psig 3	psia 17.7	24			
Flow										•				
						FLOW STR	EAM ATT	RIBUTES						
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fac F	tor	Flowing Femperature Factor	Fa	riation actor	Metered Flo R (Mcfd)		GOR Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
					-					<u> </u>		****		
)² =			(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FL	OW) (DELIV		<b>/) CALCU!</b> P <sub>a</sub> - 14.4) ⊣		:		$(P_a)^2 = (P_d)^2 =$	0.207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> iivided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	se formula 1 or 2: P <sub>c</sub> - P <sub>d</sub> LOG of formula P <sub>c</sub> - P <sub>d</sub> 1, or 2. and divide		Backpre Stop		e n x	LOG	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
		,												
									• • • • • • • • • • • • • • • • • • • •	<u></u>	14-6-2 6-3	4.65 ±=10		
pen Flo			· .	Mcfd @ 14			Delivera			· · · · · · · · · · · · · · · · · · ·	Mcfd @ 1	······································		
		-	d authority, or in, and that sa							he above rep December	ort and tha	at he has	knowledge of , 20 <u>10</u>	
		<b></b>	Witness (if						en n4	Far	Company		RECEIVI	
			vviinėss (ii	urry)						. 01			PAR BARRETT	

exempt: and that correct t of equip I her	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc. at the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records oment installation and/or upon type of completion or upon use being made of the gas well herein named breby request a one-year exemption from open flow testing for the Hayward 1-20.
	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
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commiss necessary to corroborate this claim for exemption from testing.
Date: <u>D</u>	December 1, 2010
	Signature:

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.

RECEIVED

DEC 13 2010