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

Type Test	t:				(	See Instruc	tions on Re	verse Side	)				
Ор	en Flo	w			Test Date				A DI	No. 15			
De	liverab	ilty			8/5/201						00-00		
Company Chesapeake Operating, Inc.				Lease Grove			PS			Well Number 1-35			
County Hamilton			Location C SW SW		Section 35		TWP 22S		RNG (E/W) 40W			Acres Attributed	
Field Bradsh	aw			,	Reservoi	•				hering Conn naw Gas C			
Completic 3/1/198		е			Plug Bac	k Total Dep	th		Packer S None	et at	· · · · · · · · · · · · · · · · · · ·		
Casing S 4.5	ize		Weigh	t .	Internal D 4.052	Diameter	Set <b>268</b>		Perfo 263	rations 2	то 2640		
Tubing Si	ze		Weigh	t	Internal [	Diameter	Set	at	Perfo	rations	То		
Type Con Single (		n (De	escribe)		Type Flui Water	d Production	n		Pump Ur Pump	it or Traveling <b>Unit</b>	Plunger? Yes	/ No	
	Thru	(Anı	nulus / Tubing	3)	% C	Carbon Dioxi	ide		% Nitrog		Gas Gra	avity - G <sub>g</sub>	
Vertical Depth(H) 2690				Pressure Taps Flange						(Meter Run) (Prover) Size			
Pressure	Buildu	<b>p</b> :	Shut in 8/5	2	0_10_at_7			Taken_8/	6	20	10 at 7:00	(AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n 24 Hours	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Wellhead (P <sub>w</sub> ) or (f	Pressure	Wellhe	ubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			poig (r,	menes v <sub>2</sub> s			89	103.4	psig 77	94.4	24		
Flow													
	····-					FLOW STE	REAM ATTE	RIBUTES			<u> </u>	····	
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	iation ctor :	Metered Flov R (Mcfd)	GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
							·						
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FL	OW) (DELIV		') CALCUL P <sub>o</sub> - 14.4) +		· :	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	? = 0.207 ? =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide		Backpre Slo	Backpressure Curve Slope = "n" or Assigned Standard Slope		.og [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	l w			Mcfd @ 14.	 65 psia		Deliveral	oility			Mcfd @ 14.65 psi	a	
		ianer	d authority o			states that h			o make th	<del></del>	rt and that he ha		
		•	•	aid report is true	, ,		•			ovember		, 20 10	
			Witness (i	f any)						For C	Company	RECEIVED	
For Commission							Checked by DEC 0.3.2						

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, Inc.  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 Groves 1-35  (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.   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.  Signature:   David Wiist, Production Engineer   Davi		
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Signature:	staff as necessa	ary to corroborate this claim for exemption from testing.
Signature:		
	Date: Novembe	er 1, 2010
Title: David Wiist, Production Engineer		Signature:
		Title: David Wiist, Production Engineer

## 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 03 2010