KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Re	verse Side)			
Open Flow			Test Date:				ADI	No. 45				
Deliverabilty			5/23/12				API No. 15 075-20622					
Company		Op	erating, Ir	nc.			Lease Howell	 -				Well Number
County Hamilto	on		Location NE SW SW		Section 26		TWP 22S		RNG (E/W) 40W		Acres Attributed	
Field Bradsh	aw			·	Reservoir Winfiel				Gas Ga	thering Conn	ection	
Completic 02/15/1		6			Plug Bac	k Total Dept	h		Packer S None	Set at		,
Casing S 4.5	ize		Weigh	l	Internal D 4.090	Diameter	Set a 272		Perfo 268	rations 8	т _о 2698	
Tubing S 2.375	Tubing Size 2.375		Weight 4.7		Internal Diam 1.995		ter Set at 2702		Perforations		То	
Type Con Single (n (De	escribe)	······································	Type Flui Water	d Production	1		Pump U	nit or Traveling Unit	Plunger? Yes	/ No
Producing	-	(Anr	nulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gr	avity - G _g
Vertical D	•	1)				Pres	sure Taps				(Meter i	Run) (Prover) Size
	Buildu	p: :	Shut in5/22	2 2	0 1 at 7	:00	(AM) (PM)	Taken_5/	23	20	12 at 7:00	(AM) (PM)
Well on L											at	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hou
Static / Dynamic Property	Orlfi Siz (inch	0	Circle ene: Meter Prover Pressu psig (Pm)	Pressure Differential In Inches H ₂ 0	Flowing Temperature 1	Well Head Temperature	(P _w) or (P	Pressure	Wellhe	Tubing ead Pressure or (P ₁) or (P ₀)	Ouration (Hours)	Liquid Produced (Barrels)
Shut-In			paig (r m)	HIGHES TIZE			psig 73	97.4	psig 25	39.4	24	<u> </u>
Flow			·					-				
						FLOW STR	EAM ATTR	IBUTES				
Plate Coeffiec (F _b) (F Mcfd	ient ,)		Circle one: Meter or ver Pressure psis	Press Extension ✓ P _m xh	Grav Fac F	tor 1	Flowing Femperature Factor F ₁₁	Fa	lation ctor	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	l Graviba
/D \3			/D \2		-	OW) (DELIV		•				² = 0.207
(P _e) ² =	1	=-	 	Choose formula 1 or 2	P _a =		1 .	o 14.4) +	1	 :	(P _d)	T
(P _a)² - (l or (P _a)² - (l	•	(P)²- (Pu)²	1. P _e ² - P _e ² 2. P _e ² - P _e ² #Mded by: P _e ² - P _e ²	LOG of formula 1, or 2, and divide by:	P 2 - P 2	Slo ₂	ssure Curve pe ≃ "n" - or signed iard Slope	n ×	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flow Mcfd @ 14.65 psla					Deliverability Mcfd @ 14.65 psia							
									o make ti	· ·	ort and that he ha	_
uie iacis S	1 Delm	rierei	ii, and mai sa	ld report is true	and correc	i. EXOCUTOO	mis the		uay 01 <u> </u>	-		, 20 <u>12</u>
			Witness (if	eny)			_			For 0	Company	KECEIVED
			For Commi	ssion		·	-			Che	cked by	UN 1 1 201

	der 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, Inc.
correct to the be	egoing pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records tallation and/or upon type of completion or upon use being made of the gas well herein named. Uest a one-year exemption from open flow testing for the Howell 2-26
gas well on the g	rounds that said well:
l further agre	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 ee to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
Date: June 8, 20	
	Signature: Altha Juvine
	Title: _Aletha Dewbre, Regulatory Specialist
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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 RECEIVED signed and dated on the front side as though it was a verified report of annual test results.

JUN 1 1 2012 KCC WICHITA