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

Type Test						(	See Ins	structi	ions on Re	everse Side	ө)						
	en Flo liverat					Test Date						1 No. 15 -007-22686-	00.0	00			
Company	,				······	6-26-12			Lease		15	-007-22000-		1	Well Nu	ımber	
CHESAPEAKE OPERATING, INC.  County Location					BROWNBACK Section TWP				RNG (E/W)			1-7 Acres Attributed					
BARBER 330' FSL & 530' FWL					7			35S		15W	15W						
Field SOUTH AETNA						Reservoir MISSISSIPPI				Gas Gathering Connec			on				
Completion Date 3-26-02					Plug Back Total Depth 5360				Packer Set at NONE								
asing S		Weig 10.5	ht		Internal Diameter 4.090			Set at 5400		Perforations 5248		то 5300					
Tubing Size			Weig 4.7	ht		Internal Diameter		r	Set at 5193		Perforations		То				
Z.375 4.7 Type Completion (Describe) SINGLE GAS				Type Flui	Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No YES-PUMP				· · · · · · · · · · · · · · · · · · ·				
			nulus / Tubir	ıg)	• · · · · · · · · · · · · · · · · · · ·	WATE % C	R/OIL arbon		de		% Nitro			Gas Gr	avity -	G <sub>g</sub>	
ANNULUS Vertical Depth(H) 5274					Pressure Taps FLANGE								.614 (Meter Run) (Prover) Size 2.067"				
	D. ild.		Shut in 6-2	22-	12 ,	0 0				Takes 6	-25-12	20	<del>-,</del>	0045		(AM) (PM)	
ressure Vell on L		ıp:	Started 6-25		2 20 at C		(845		(AM) (PM) Taken <u>6-2</u> (AM) (PM) Taken <u>6-2</u>		-26-12	<u>26-12</u> 20		at0845		(AM) (PM)	
							OBSE	RVE	D SURFAC	E DATA			Du	ration of Shut-	<sub>in</sub> _72	.0 Hours	
Static / Orifice Dynamic Size Property (inches		20	Prover Pressi		Pressure Differential in	Flowing Well Head Temperature Temperature			I Wellhead Pressure		1	Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	-		psig (Pm)		Inches H <sub>2</sub> 0	· · · · · · · · · · · · · · · · · · ·		·	psig 250.3	psia 264.7	psig	psia	7:	72.0			
Flow			18.1		64.2	92	92 75		40.9	55.3				24.0		6.0	
			I					STR	EAM ATTF	RIBUTES			·		J		
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> xh		Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>rt</sub>		F	Deviation Metered Factor R F <sub>pv</sub> (Mode		(Cubic Fe		et/	Flowing Fluid Gravity G <sub>m</sub>	
.686		32	32.50		5.68	1.276	.2762 0.		9706 1.002		23	3 . 38.9		NONE		0.614	
$(c_0)^2 = 7$	0.1	:	(P <sub>w</sub> ) <sup>2</sup>	_ 3	3.1 <sub>:</sub>	(OPEN FL	ow) (D 20.9					264.7 <sub>:</sub>		(P <sub>a</sub> )	2 = 0.2 2 =	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>		Chaose formula 1 or 2: 1. $P_c^2 - P_B^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1. or 2. and divide by:		) 2 W	Backpressure Curve Slope = "n"		9	n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
69.86		67	67.01		043	0.0181			0.850		0.0	)154	1.	1.0360		40.30	
Open Flo	w 40				Mcfd @ 14.	65 psia			Deliveral	bility			Mcf	d @ 14.65 psi	а		
		-	d authority, o									the above repo					
1										P	ـــــــــــــــــــــــــــــــــــــ	11/2	/ la /	NT-1	R	ECFIVE	
	19 g 00 s	TC _K	XCC Witness XCC	(if an	Dadd	Cife					4	Naky	Comp	Beck		L 0 9 2	
	T	,	For Com	missi	on O	<del></del>			•			Che	ckéd	Бy	(00	JA ::	
														ŗ	,CC	WICH	

i declare und	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator
and that the fore	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
of equipment inst	allation and/or upon type of completion or upon use being made of the gas well herein named.
i hereby requ	est a one-year exemption from open flow testing for the
gas well on the gi	rounds that said well:
	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
	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.