KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			0.11		J., (1)	(See Instruc	tions on Re	verse Side)	, (2)				
·		147				,	oee mando		verse orac	•/					
Open Flow Test Date: 9/30/2012										No. 15 -22439 ~ (0000				
Company Chesapeake Operating, Inc.						,	Lease Harbai	ıah H			1-27		Number		
County Location				Section		TWP	Harbaugh H		RNG (E/W)		Acres Attributed				
Barber 660' FSL & 2310' FWL			2310' FWL	27		338									
Field Aetna					Reservoir Mississ	sippi			Oneok E	ering Conn Energy Serv			RE(
Completion Date 7/29/94			,			Plug Back Total Depth 4728		th			Packer Set at None		DEC		
Casing S 5 1/2	ize		Weight 14			Internal Diameter 5.012		Set at 4849		Perforations 4658		To 4740)	DEC L	
Tubing Size 2 3/8			Weight 4.7			Internal Diameter 1.995		Set at 4658		Perforations		То			
	Type Completion (Describe) Single GaS					Type Flui Water	d Production	n .		Pump Unit or Travelin Pump Unit		g Plunger? Yes / No			
Producing Thru (Annulus / Tubing) Annulus				% C	arbon Dioxi	ide	% Nitrogen			Gas Gravity - G _g		· G _g			
Vertical D		H)			.,		Pres	sure Taps				(Mete	r Run) ((Prover) Size	
Pressure	Buildu	p:	Shut in _9/3	30	20	12 at 7		(AM) (PM)	Taken_1(0/1	20	11 at 7		(AM) (PM)	
Well on L												at			
				•	<u> </u>		OBSERVE	D SURFAC	E DATA			Duration of Shu	ut-in	Hours	
Static / Dynamic Property	ynamic Size roperty (inches)		e Prover Pressure		in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_1) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In					inches H ₂ 0			psig 90	psia 104.4	psig 15	29.4	24			
Flow															
							FLOW STF	REAM ATTR	IBUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension P _m x h	Gravity Factor F ₀		Temperature Fac		viation Metered Flow actor R = (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
						(OPEN EL	OW) (DELIV	'ERABILITY) CALCUI	ATIONS					
(P _c) ² =		;	(P _w) ²	=	:	P _d =			•	14.4 =	;		$_{a}^{a})^{2} = 0.$ $_{d}^{a})^{2} = _{\underline{}}$		
(P _c) ² - (I	$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ed by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpressure Curve Slope = "n" or Assigned Standard Slope		e n x LOG		Antilog	0	Open Flow eliverability als R x Antilog (Mcfd)	
-								·							
													<u> </u>		
Open Flo	w				Mcfd @ 14.6	5 psia		Deliverat	oility			Mcfd @ 14.65 p	sia		
		•	•		ehalf of the C			•		o make the		rt and that he		owledge of , 20 12 .	
			Witness	(if any	y)		***************************************	-			For 0	Company			
			For Com	missio	'n						Chec	cked by		 	

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KCC WICHITA								
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 Harbaugh H 1-27								
gas well on the grounds that said well:								
(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.								
11/20/2012								
Date:								
Signatura Within Diofre								
Signature: WWW Server								
Title: _Aletha Dewbre, Regulatory Specialist								

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.