(AM) (PM)

(AM) (PM)

(Barrels)

 $(P_a)^2 = 0.207$

Mcfd @ 14.65 psia

Hours

KANSAS CORPORATION COMMISSION 7 P. ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side) Type Test: · Open Flow Test Date: API No. 15 Deliverabilty 007-22470 - 0000 9/21/2012 Company Lease Well Number Chesapeake Operating, Inc. 2-6 Morrow A County TWP Location Section RNG (E/W) Acres Attributed RECEIVED DEC 1 0 2012 KCC WICHITA Barber 330 FNL & 2000 FEL 35S 13W 6 Field Gas Gathering Connection Reservoir Mississippi Aetna Oneok Energy Service Completion Date Plug Back Total Depth Packer Set at 3/11/95 5475 None Casing Size Weight Internal Diameter Set at Perforations То 5 1/2 15.5 5521 5.012 4848 4854 Tubing Size Weight Internal Diameter Set at Perforations To 2.375 4.7 1.995 4957 Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes / No Water Single Gas Pump Unit Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G Annulus Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size 5520 9/21 20 12 at 10 20 12 at 10 9/22 Pressure Buildup: Shut in _ (AM) (PM) Taken. Well on Line: Started ... 20 ____ at ____ ___ (AM) (PM) Taken 20 ____ at ___ **OBSERVED SURFACE DATA** Duration of Shut-in Circle one: Pressure Casing Tubing Static / Orifice Flowing Well Head Meter Differential Wellhead Pressure Wellhead Pressure Duration Liquid Produced Dynamic Size Temperature Temperature Prover Pressure (Hours) in (P_w) or (P_1) or (P_c) (P_w) or (P_t) or (P_c) Property (inches) psig (Pm) Inches H₂0 psig psia psig psia Shut-In 63 77.4 10 24 24.4 Flow **FLOW STREAM ATTRIBUTES**

Plate Coeffiecient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension P _m x h	Gravity Factor F _g	Flowing Temperature Factor F _{ft}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

 $(P_{a})^{2} =$ (P_w)² = $(P_c - 14.4) + 14.4 =$ $(P_{d})^{2} =$ Choose formula 1 or 2 Backpressure Curve Open Flow (P_c)² - (P_s)² (P_c)² - (P_w)² 1. P_c²-P_a² LOG of Slope = "n" n x LOG Deliverability formula -- or----Antilog 2. P.2. P.2 (P_c)2- (P_d)2 Equals R x Antilog Assigned and divide Pc2 - Pw2 divided by: Pc2 - Pu2 (Mcfd) Standard Slope

The undersigned authority, on behalf of the Company, states that he is duly auth	orized to make the above report and that he has k	nowledge of
he facts stated therein, and that said report is true and correct. Executed this the $\frac{7}{2}$	day of December	, 20 12
Witness (if any)	For Company	
For Commission	Checked by	

Deliverability

Mcfd @ 14.65 psia

Open Flow

DEC 1 0 2012

,	KCC WICHITA				
	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.				
	ng pressure information and statements contained on this application form are true and				
correct to the best of	f my knowledge and belief based upon available production summaries and lease records				
, ,	ation and/or upon type of completion or upon use being made of the gas well herein named.				
	t a one-year exemption from open flow testing for the Morrow A 2-6				
gas well on the grou	nds that said well:				
(Check or	ne)				
is	s 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					
<u></u>	s not capable of producing at a daily rate in excess of 250 mcf/D				
I further agree to	o supply to the best of my ability any and all supporting documents deemed by Commission				
-	o corroborate this claim for exemption from testing.				
,	,				
40/0/0040					
Date: 12/6/2012					
	Signature: Aletha Dewbre				
	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.