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

Type Test	t:				(	See Instruc	tions on Re	verse Side	<del>;</del> )				
Open Flow				Total Date:									
✓ Deliverabilty			Test Date: 6/19/2014				API No. 15 ' 081-21445 <b>- 000 0</b>						
Company		Ореі	rating, L.L.0	 D.		<u> </u>	Lease Brennar	n	···-		2-24	Well Number	
County Haskell			Location SE NE SE		Section 24		TWP 29S		RNG (E/W) 33W			Acres Attributed	
Field Lemon NE					Reservoir Atoka /	r Cherokee	/ Marrow			Gas Gathering Connection Chesapeake Energy M			
Completion 7/11/200		te			Plug Bac 5,470'	k Total Dept	th		Packer 8	Set at			
Casing S 5.5			Weigh 15.50		Internal Diameter 4.950		Set at 5,620'		Perforations 5,072'		то 5,350'	5,350'	
Tubing S 2.875	Tubing Size		Weigh 6.50	nt	Internal Diameter 2.441		Set at 5,404'		Perforations		То		
Type Con	npletio	n (D				d Production	<u>_</u>		Pump U	nit or Traveling	Plunger? Yes		
Gas						Oil/Water			Pump Unit				
Producing Thru (Annulu Annulus			nulus / Tubin	oing) % Carbo			n Dioxide			% Nitrogen		Gas Gravity - G <sub>g</sub>	
Vertical E 5,602'	Pepth(	1)				Pres	sure Taps			· · · · · ·	(Meter I	Run) (Prover) Size	
Pressure	Buildu	p:	Shut in _6/1	8 2	0_14_at		(AM) (PM)	Taken_6/	19	20	14 at	(AM) (PM)	
Well on L	ine:		Started	2	0 at	·····	(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	E DATA			Duration of Shut-	in 24 Hours	
Static / Orifice Dynamic Size Property (Inches		:е	Circle ane: Meter Prover Press psig (Pm)	Pressure Differential in Inches H <sub>5</sub> 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing ead Pressure or (P <sub>t</sub> ) or (P <sub>o</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			poig (i iii)	Miches 11 <sub>2</sub> 0			psig 60	74.4	psig 16	30.4			
Flow													
			•			FLOW STR	EAM ATTRI	BUTES	-				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psla		Press Extension	Extension Fact		or Temperature		iation clor : pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m	
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	. :	•		<b>ERABILITY)</b> % (P	CALCUL 14.4) +				<sup>2</sup> = 0.207 <sup>2</sup> =	
(P <sub>0</sub> ) <sup>2</sup> - (F or (P <sub>2</sub> ) <sup>2</sup> - (F	)²		P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. P <sub>0</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>0</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	LOG of formula 1. or 2.		Backpres Slop	ssure Curve ne = "n" or signed	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog	
( 6)	ď'			divided by: Pc2-Pw	and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		ard Slope				(Mcfd)	
Open Flor	<i>N</i>			Mcfd @ 14.	65 psia		Deliverabi	ility			Vicfd @ 14.65 psi	a	
The	ınders	ignec	authority, o	n behalf of the	Company, s	tates that h	e is duly au	thorized to	make th	ne above repor	rt and that he ha	s knowledge of	
the facts si	tated t	herei	n, and that s	aid report is true	and correct	. Executed	this the		day of _N	larch		, 20 <u>15</u> .	
			Witness (	if any)	-		Received PORATION COM	VIMISSION		For C	отрапу		
			For Comm	nission		NUL	1 2 9 2 <del>0</del>	15-		Chec	ked by		

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, L.L.C. 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 Brennan 2-24 gas well on the grounds that said well:
gas well on the grounds 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
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.
Date: 3/18/2015
Signature: WWW WALL Received  KANSAS CORPORATION COMMISSION  Title: Katie A. Wright, Regulatory Analyst  JUN 2 9 2015
CONSERVATION DIVISION WICHITA, KS

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.