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

Type Test	:					(	See Instru	uctio	ons on Rev	verse Side	e)							
	en Flo	w				<b>_</b> . <del>_</del>						DI N - 23	_					
De	liverab	ilty				Test Date 06/18/20						PI No. 15 <b>75-20</b> 6		00	o			
Company		e Or	perating,	Inc.					Lease Hatche	er						/ell Nu	mber	
County Location Hamilton NW SE SE					Section 13			TWP 22S	RNG (	RNG (E/W) 42W			Acres Attributed					
Field Bradshaw					Reservoir Winfield			Gas Gathering Conne OneOk Energy Serv										
Completic 1/16/97		е				Plug Bac 2660	Plug Back Total Depth 2660						cker Set at Ione					
Casing S 4.5	ize		Weig	ht		Internal Diameter			Set a <b>266</b> 9		-	Perforations 2638			то 2648			
Tubing Size Weight 2.375 4.7				Internal Diameter 1.995			Set a 266		Per	Perforations			То					
Type Completion (Describe) Single Gas				Type Flui Water	Type Fluid Production Water						Pump Unit or Traveling F Pump Unit			Plunger? Yes / No				
Producing Annulus	-	(Anı	nulus / Tubir	ıg)		% (	Carbon Die	bixc	le		% Nitr	ogen			Gas Gra	vity - 0	Э <sub>g</sub>	
Vertical Depth(H) 2671						Pressure Ta				ps				(Meter Run) (Prover) Size				
Pressure	Buildu	ıp:	Shut in06/17		2	0_13_at_7	13 at 7:00		(AM) (PM) Taken		3/18 20		13 at 7:00		(AM) (PM)			
Well on L	Well on Line: Started 20			0 at	1.18.1	(	(AM) (PM)	Taken			20		at		(AM) (PM)			
			1				OBSER	VED	SURFAC					Dura	ation of Shut-i	<sub>n</sub> _24	Hours	
Static / Dynamic Property	Orif Siz (inch	e	Circle one:  Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		(P <sub>w</sub>	Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	ut-In				2				25	39.4	62	1	76.4		24			
Flow															<u> </u>	<u> </u>		
				<del></del>			FLOW S	TRE	EAM ATTR	IBUTES				. 1				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one:  Meter or  Prover Pressure  psia		Press Extension P <sub>m</sub> x h	Fac	Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>11</sub>		Deviation Metered Flow Factor R (Mcfd)		w GOR (Cubic Fee Barrel)		et/	Flowing Fluid Gravity G <sub>m</sub>		
				1		(OPEN FI	OW) (DEI	IVF	ERABILITY	) CALCU	L ATION:	 s			<b>(D.</b> )			
(P <sub>c</sub> ) <sup>2</sup> =		_:_	(P <sub>w</sub> ) <sup>2</sup>	=	·	P <sub>d</sub> =	, ,	%		P <sub>c</sub> - 14.4)			<u>_:</u>		(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	= 0.2	<u></u>	
$(P_{o})^{2} - (P_{a})^{2}$ or $(P_{o})^{2} - (P_{g})^{2}$		(F	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		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	formula 1. or 2. and divide p 2. p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n	n x tOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
						_												
Open Flo		<u> </u>			Mcfd @ 14.	65 psia			Deliverat	oility				Mefe	I @ 14.65 psi	 a		
•							-1-1 1L ·					the et-			<del></del>		wladaa of	
		•	d authority,						•				ve repo	nı ar	nd that he ha		20 <u>13</u> .	
	-										-					-	WICH	
			Witness	(if any	1)			-	•				For	Compa	ny			
			For Con	nmissio	on			-	-				Che	cked b	у	JUI	L 0 1 20	
																F	RECEIV	

	ler 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.
and that the fore correct to the bes of equipment insta	going pressure information and statements contained on this application form are true and it of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Hatcher 2A-13
	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 by to corroborate this claim for exemption from testing.
D 06/05/2014	3
Date: <u>06/25/2013</u>	

## 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.

KCC WICHITA

JUL 0 1 2013