KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Insti	ruci	tions on Re	verse Side	9)					
Op	en Flo	w				Test Date	•			-	۸۵	No. 15				
De	liveral	oilty				9/24/20					07	5-20624 <i>~</i> (∞ . \bigcirc \circ			
Company		e O	perating,	Inc.	•				Lease Hatche	er				Well No	umber	
County Location Hamilton NW SE SE			Section 13				TWP 22S		/W)	Acres Attributed						
Field Bradsh	aw					Reservoi Winfiel						thering Conn				
Completion 1/16/97		te				Plug Bac 2660	k Total D	ept	th		Packer S None	Set at				
Casing Size Weight 4.5				Internal Diameter			Set a 2669		Perforations 2638		то 2648					
Tubing Size 2.375			Weig 4.7	ht		Internal (1.995	Internal Diameter 1.995			Set at 266 0		rations	То			
Type Con Single (•	n (D	escribe)			Type Flui Water	d Produc	tior	1		Pump U		Plunger? Yes	/ No		
Producing	•	(An	nulus / Tubir	ng)		% C	arbon Di	oxi	de		% Nitrog	jen	Gas Gr	avity -	G _g	
Vertical D	epth(I)					Pr	ress	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildu	ıp:	Shut in 9/2	24	2	0_10_at_7	:00		(AM) (PM)	Taken_9/	25	20	10 at 7:00		(AM) (PM)	
Well on L	ine:		Started		20	0 at			(AM) (PM)	Taken	·, · · · · · · · · · · · · · · · · · ·	20	at		(AM) (PM)	
							OBSER	VE	D SURFACE	E DATA			Duration of Shut-	_{in} 24	Hours	
Static / Orifice Dynamic Size Property (inches		e Prover Pressu		ure	Pressure Differential in	Flowing Temperature t	Well Hea Temperatu	I Wallhaari Praccii		Pressure	Wellhe	Tubing ad Pressure r (P,) or (P _c)	Duration (Hours)	Liqui	Liquid Produced (Barrels)	
Shut-In	(11101		psig (Pm)		Inches H ₂ 0	•	,		psig 30	psia 44.4	psig 70	psia 84.4	24			
Flow														 		
J						· · · · · · · · · · · · · · · · · · ·	FLOW S	TR	EAM ATTRI	BUTES				1		
Plate Coefficient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Fact	Gravity Factor F _g		Temperature		ation ctor : pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
	i															
(P _c) ² =		_:	(P _w)² :	=	·	(OPEN FLO		.IVI %	ERABILITY) 6 (P	CALCUL c - 14.4) +		:	(P _a) (P _d)	² = 0.2	07	
(P _c) ² - (F or (P _c) ² - (F		(P	' _c)²- (P _w)²	1 2	se formula 1 or 2: $P_c^2 \cdot P_a^2$ $P_c^2 \cdot P_d^2$ $P_c^2 \cdot P_d^2$ and by: $P_c^2 \cdot P_w^2$	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²		Slop	ssure Curve re = "n" or signed ard Slope	nxl	og [Antilog	Del Equals	pen Flow iverability R x Antilog (Mcfd)	
Open Flov	v				Mcfd @ 14.6	55 psia			Deliverabi	lity			Mcfd @ 14.65 psi	a		
			I authority, c									e above repo ovember	rt and that he ha		ledge of 20 <u>10 .</u> .	
			Witness	if any)				-	<u></u>			For C	Company	1	70	
			For Comr	nission								Chec	ked by		J' -	

exempt status under and that the forego correct to the best of of equipment install I hereby reques	r penalty of perjury under the laws of the state of Kansas that I am authorized to request at Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc. Sing pressure information and statements contained on this application form are true and of 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. State one-year exemption from open flow testing for the Hatcher 2A-13
gas well on the gro	unds 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
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: November 1	5, 2010
	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.