KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:					((See Instruc	tions on Re	everse Side	e)					
Open Flow Deliverabilty				Test Date					No. 15						
		y				8/5/201	0 .	•		075	-20616 -	∞			
Chesapeake Operating, Inc.						Frack	Lease Frack				Well Number 2-14				
County Location Hamilton NW SE NE				Section 14		TWP 21S			RNG (E/W) 40W			Acres Attributed			
Field Bradsh	aw					Reservoi	r				ering Conr aw Gas (
Completion Date 2/10/1997				Plug Bac 2810	k Total Dept	th		Packer Se None	et at		the state of the s				
Casing Size Weight 4.5 10.5				Internal 0 4.052	Diameter	Set at 2804		Perforations 2777			то 2782				
Tubing Size Weight 2.375 4.7			ht	nt Internal Diameter 1.995			Set 278		Perforations			То			
Type Completion (Describe) Single Gas			Type Flui Water	d Production	า	Pump Unit or Trave Pump Unit			ling Plunger? Yes / No						
Producing	_	(Anı	nulus / Tubir	ng)		% C	Carbon Dioxi	de		% Nitroge	n		Gas Gi	ravity - (Э ₀
Vertical D	epth(H)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 1:11			sure Taps					(Meter		rover) Size
2805			0"			40 7	Flan	-		······································		40	2.067	,	
Pressure	Buildu):	Shut in 8/5) 	2	0_10_at_7	:00	(AM) (PM)	Taken8/	6	20	10	at		AM) (PM)
Well on L	ine:		Started		2	0 at		(AM) (PM)	Taken		20		at		(AM) (PM)
							OBSERVE	D SURFAC	E DATA			Dura	tion of Shut-	-in 24	Hours
Static / Dynamic		Circle one Size Size Prover Pres psig (Pro		Pressure Differential		Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration		Liquid Produced	
Property				- 1	in Inches H ₂ 0	t	t	(P _w) or (P _t) or (P _c)		(P _w) or (P _t) or (P _c)		(Hours)	(Barrels)	
Shut-In				_	-			88	102.4	70	84.4	24			
Flow															
							FLOW STR	EAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m xh	Gravity - Factor F _g		Flowing Femperature Factor F ₁₁		iation ctor :	Metered Flow R (Mcfd)		GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m	
										<u> </u>					
(P _c) ² =		:	(P _w)² =	=	:	(OPEN FLO	OW) (DELIVI) CALCUL P _c - 14.4) +		:		(P _a) (P _d)	² = 0.2 ² =	07
(P _e) ² - (P _a) ² or (P _e) ² - (P _d) ²		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²		LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpressure Cui Slope = "n"			og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flov	v .			ļ	Mcfd @ 14.6	55 psia		Deliverab	ility			Mcfd	@ 14.65 psi	а	
							tates that he					ort and	i that he ha		edge of 20 10 .
			Witness (if any)							For (Company	, , , , , , , , , , , , , , , , , , ,	RE	CEIVED
			For Comm	nission	,			•••			Chec	cked by			0.3 2010

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.
	the foregoing pressure information and statements contained on this application form are true and
correct t	o the best of my knowledge and belief based upon available production summaries and lease records
of equipi	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
Iher	reby request a one-year exemption from open flow testing for the Frack 2-14
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
	is not capable of producing at a daily rate in excess of 250 mcf/D
l furt	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as r	necessary to corroborate this claim for exemption from testing.
Date: No	ovember 1, 2010
٠,	
	Signature:
	Title: David Wiist, Production Engineer

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.

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DEC 03 2010

KCC WICHITA