KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

4

Type Test: Open Flow					((See Instructions on Reverse Side)								
Deliverabilty					Test Date: AP. 8/5/2010 07				I No. 15 5-20371 - 0	00-00				
Company		e Or	perating, In	c.			Lease Engel	land			1-14	Well Number		
County Location Hamilton C SW				Section 14		TWP 22S	TWP RNG (E 22S 40W				Acres Attributed			
Field				Reservoi Winfiel			Gas Gathering Conn DCP Midstream Ma							
Completion Date 5/26/1981				Plug Bac	k Total De	epth	n Packer Set at None							
Casing Size Weight 4.5 10.5					Internal (4.090	Diameter	Set 282		Perfo 274	orations 16	то 2752			
				Internal [Diameter	Set	Set at Po		orations	То				
Type Completion (Describe) Single Gas					Type Flui Water	d Product	tion		Pump U	nit or Traveling Unit	Plunger? Yes / No			
Producing Thru (Annulus / Tubing) Annulus						Carbon Did	oxide	<u> </u>			Gas Gravity - G _g			
Vertical D		I)			······································	Pr	essure Taps				(Meter	Run) (Prover) Size		
2830 Pressure	Buildu	n. (Shut in8/5	2	0 10 , 0	7:00	(AM) (PM)	Taken 8/	6	20	10 at 07:00	(AM) (PM)		
Well on L												(AM) (PM)		
······································						OBSER	VED SURFAC	E DATA	·		Duration of Shut-	-in 24 Hours		
Static / Dynamic Property	amic Size		Circle one: Press Meter Differe Prover Pressure in psig (Pm) Inches		Flowing Well He Temperature t t		Wellhead (P _w) or (I	sing I Pressure P ₁) or (P _c)	Tubing Wellhead Press (P _w) or (P _t) or (Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			poig (i iii)	Menes 11 ₂ 0			90	104.4	170	184.4	24			
Flow														
					1	FLOW S	TREAM ATTE	RIBUTES		T*************************************	<u> </u>			
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fact	tor	Flowing Temperature Factor	Temperature Factor F		Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	I Gravity I		
(P _c) ² =		_:	(P _w) ² =_	:	(OPEN FL		.IVERABILITY % (1	') CALCUL P _c - 14.4) +		:	(P _a) (P _d)	² = 0.207 ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² - P _a ² LOG of formula 2. P ² - P ² 1. or 2.		Slop P 2 - P 2 Ass		ssure Curve De = "n" n x or n x signed ard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flo	w	Mcfd @ 14.65			65 psia	5 psia		Deliverability		Mcfd @ 14.65 psia				
	,	-	authority, on				•			•	rt and that he ha	as knowledge of, 20 10		
			Witness (if a								ompany	RECEIVED		
			For Commiss			•	-				ked by	DEC 0.3-20		
			, or commis							Chec	nou by	Arr na		

exempt status ur	der penalty of perjury under the laws of the state of Kansas that I am authorized to request or needed and the state of Kansas that I am authorized to request or Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc. Regoing pressure information and statements contained on this application form are true and
correct to the be of equipment ins I hereby req	st of my knowledge and belief based upon available production summaries and lease records tallation and/or upon type of completion or upon use being made of the gas well herein named. uest a one-year exemption from open flow testing for the Engelland 1-14 grounds that said well:
I further agre	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 see to supply to the best of my ability any and all supporting documents deemed by Commission my to corroborate this claim for exemption from testing.
Date: Novembe	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.

RECEIVED

DEC 0.3 2010

KCC WICHITA