KCC MICH

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Re	verse Side)				
	en Flo aliverab				Test Date 8/2/2011				API N 075-	lo. 15 20731 -	0000		
Company Chesapeake Operating, Inc.				Lease Witt				Well Nu 3-14			mber		
County Location Hamilton SW NE NE				Section 14		TWP 23S		RNG (E/W) 41W		Acres Attributed		ttributed	
Field Bradshaw				Reservoir Winfield				Gas Gathering Connection OneOk Energy Services					
Completion Date 9/29/00				Plug Back Total Depth 2560				Packer Se None	t at				
Casing Size Weight 4.5 10.5			t .	Internal D 4.052	Diameter	Set at 2585		Perforations 2521		то 2530			
Tubing Size Weight 2.375 4.7				Internal D 1.995	Diameter	Set at 2556		Perforations		То			
Type Completion (Describe) Single Gas				Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit				
Producing Annulus	-	(Ani	ıulus / Tubinç	g)	% C	arbon Dioxi	de		% Nitroge	n	Gas Gr .786	avity - G	ì
Vertical Depth(H) 2585				Pressure Taps Flange						(Meter I 2.067		rover) Size	
· · · ·				11 at 7	(AM) (PM)	PM) Taken 8/3		20	11 at 7:00	(AM) (PM)			
Well on Line:			Started 20) at		(AM) (PM) Taken		20		at	_ at (AM) (
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in <u>24</u>	Hour
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Oifferential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _*) or (P ₁) or (P ₂)		Tubing Weilhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			F-18 (,				psig 33	47.4	120	134.4	24		
Flow													
	 1			<u> </u>	-1	FLOW STR	EAM ATTR	IBUTES			- 1		
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or ever Pressure psia	Press Extension	Extension Fact		Flowing Femperature Factor F ₁₁	Deviation Factor F _{pv}		Metered Floo R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
L													<u> </u>
(P _c) ² =		_:	(P_)² =	:	•	OW) (DELIV		') CALCUL P _c - 14.4) +		:		2 = 0.20 2 =	07
$(P_e)^2 - (P_e)^2$ or $(P_e)^2 - (P_g)^2$		(F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. P _c ² - P _s ² 2. P _c ² - P _c ² divided by: P _c ² - P _s	LOG of formula 1. or 2. and divide	P _c ² . P _w ²	Slo As	Backpressure Curve Slope ≃ "n" or Assigned Standard Slope		og [Antilog	Deli Equals	en Flow iverability R x Antilog (Mcfd)
					 							<u> </u>	
Open Flo				Mcfd @ 14	 .65 psia		Deliverat	oility			Mcfd @ 14.65 ps	l a	
The	unders	igne	d authority, or	n behalf of the	Company, s	states that h	e is duly a	uthorized t	o make the	above repo	irt and that he ha	s know	ledge of
the facts s	stated t	herei	in, and that sa	aid report is tru	e and correc	t. Executed	this the 2	1	day of Se	ptember		, ?	20 11 .
			Witness (i	if any)			-		x_(ade	company RE	(C)	l'ann
			For Comm	nission			-			Che	cked by	レニー	/ED 2011
											OC1	17	2011

exempt status unde	r penalty of perjury under the laws of the state of Kansas that I am authorized to request r Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.
correct to the best of equipment install	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.
gas well on the gro	
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 9/21/2011	
	Signature: Erin Carson, Regulatory Compliance Analyst

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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KCC WICHITA