50 -X

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

Type Test	:				(See Instruc	tions on Het	rerse Siae	9)						
	en Flov liverabi				Test Date 7/27/20		•			No. 15 -20883 - (\mathcal{L})()			
Company		Or	erating, Inc	C.	1121120		Lease Grothe	Α			,00	1-24	Well Nun	nber	
County Stevens	s		Location C NE S		Section 24		TWP 33S		RNG (E/	W)			Acres At	tributed	
Field Shuck					Reservoir Morrov					ering Conne Energy Serv					
Completic 2/28/86)			Plug Bac 6488	k Total Dep	th		Packer S	et at				•	
Casing Si 5-1/2	ize		Weight 15.5		Internal D 4.950	Diameter	Set a 6590		Perfor 6014	ations		то 6021			
Tubing Si 2 7/8	ze		Weight 6.5		Internal Diameter Set at Perforations To 2.441 5900		То								
Type Com Gas	npletion	(De	escribe)		Type Flui Water	d Production	n	,	Pump Un Plunge	it or Traveling r	Plunge	er? Yes	/ No		
Producing Tubing	Thru	(Anr	nulus / Tubing)		% C	arbon Dioxi	ide	7 2.12	% Nitroge	en		Gas Gra	avity - G	9	
Vertical D	epth(H)				Pres	sure Taps					(Meter F	Run) (Pr	over) Size	
Pressure	Buildu	o:	Shut in	2	0_11_at_0	7:00	(AM) (PM)	Taken_7/	28	20	11 a	07:00	(/	AM) (PM)	
Well on Li	ine:	;	Started	2	0 at		(AM) (PM)	Taken		20	a	t	(/	AM) (PM)	
						OBSERVE	D SURFACI	E DATA			Duratio	on of Shut-	_{in} _24	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In							120	134.4	120	134.4	24		SED	2 3 2011	
Flow														² 3 201	
					. ,	FLOW STE	REAM ATTR	BUTES				<u> </u>	CW	leur-	
Plate Coeffieci (F _b) (F Mcfd	ient p)		Circle one: Meter or ver Pressure psia	Press Extension P _m xh	Grav Fac F	tor	Flowing Temperature Factor F ₁₁	Fa	iation actor = pv	Metered Flow R (Mcfd)	v	GOR (Cubic Fe Barrel)	et/	Flowing A Fluid Gravity G _m	
		<u>-</u>			(OPEN EL	OW) (DELIV	/ERABILITY) CALCIII	ATIONS	······································					
(P _c) ² =		:	(P _w) ² =	;	P _d =			, 0AL001 P _c - 14.4) +		:		(b ^a), (b ^a),	2 = 0.20 2 =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		hoose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide P2-P		Backpressure Curv Slope = "n"		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @	14.65 psi	а		
		_	d authority, on n, and that sai	d report is true						eptember	ort and	that he ha		edge of 20	
	·		For Commis				_		/	Che	cked by				
			. 5. 55	**							-				

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc
and that the forego	ping 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
• •	lation and/or upon type of completion or upon use being made of the gas well herein named.
	st a one-year exemption from open flow testing for the Grothe A 1-24
jas well on the gro	ounds that said well:
(Check	one)
	is a coalbed methane producer
\checkmark	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:
	Title: 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.