normal lines

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		O .,		J J	I ADILIZ I		ctions on Re			ERADILII	i iesi	
	en Flow verabilt	v			Test Date					No. 15		
Company					07/11/2	013	Lease	· · · · · · · · · · · · · · · · · · ·	189	9-20883 - 00		Well Number
Chesap	eake	Operating					Grothe	Α	·		1-24	
County Stevens	;		cation IE S\		Section 24		TWP 33S		RNG (E	/W)		Acres Attributed
Field Shuck					Reservoir Morrov					thering Conn Energy Sen		
Completion 2/28/86	n Date				Plug Bac 6488	k Total Der	oth		Packer \$	Set at		
Casing Siz	ze	w∈ 15	eight .5		Internal I 4.950	Diameter	Set : 659		Perfo 601	orations 4	то 6021	
Tubing Siz	20	W∉ 6.5	eight		Internal [2.441	Diameter	Set :		Perfo	orations	То	
Type Com Gas	pletion	(Describe)		-	Type Flui Water	d Production	on		Pump U Plung	nit or Traveling er	Plunger? Yes	/ No
Producing Tubing	Thru (Annulus / Tu	bing)		% C	Carbon Diox	kide		% Nitrog	gen .	Gas Gr	avity - G _g
Vertical De	epth(H)					Pre	ssure Taps			:	(Meter I	Run) (Prover) Size
Pressure E	Buildup:	Shut in _)7/10	2	0_13 at_0	7:00	(AM) (PM)	Taken_07	7 /11	20	13 at 07:00	(AM) (PM)
Well on Lir	ne:	Started _		20	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERV	ED SURFAC	E DATA			Duration of Shut-	in 24 Hours
Static / Dynamic Property	Orifice Size (inches	Prover Pro	er essure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _w) or (F	Pressure	Wellhe	Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In				2	•		psig 110	psia 124.4	psig 110	124.4	24	
Flow									·			
	· 1					FLOW ST	REAM ATTR	IBUTES				
Plate Coeffiecie (F _b) (F _p Mcfd		Circle one: Meter or Prover Pressur psia	re	Press Extension	Grav Fact	tor	Flowing Temperature Factor F ₁₁	Fai	ation ctor pv	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m
/D \2		. (5)			•	OW) (DELIV	/ERABILITY	•	-			² = 0.207
$(P_{c})^{2} = $: $(P_{w})^{2} = $: Choose formula 1 or 2:		P _d =%			Backpressure Curve				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 2. P _c ² - P _d ² ded by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by:	Slop P 2 - P 2 Ass		ssure Curve be = "n" - or signed ard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flow	•			Mcfd @ 14.6	35 psia		Deliverab	ility			Mcfd @ 14.65 psi	a
											rt and that he ha	•
the facts sta	ited the	rein, and tha	t said	report is true	and correct	t. Executed	this the 9		day of S	eptember		, ₂₀ <u>13</u> .
		Witne	ss (if an	y)	· · · · · · · · · · · · · · · · · · ·	KC	C WICH	ATIH		For C	Company	
		For C	ommissio	on		SE	P 13 26)13			cked by	•

I declare under penalty of perju	· ·		
exempt status under Rule K.A.R. 82-			
and that the foregoing pressure info		• • • • • • • • • • • • • • • • • • • •	
correct to the best of my knowledge	•		
of equipment installation and/or upor		=	•
I hereby request a one-year exe	mption from open flow testing f	or the Grothe A 1-2	4
gas well on the grounds that said we	ell:		
(Check one)			
is a coalbed meth	nane producer		
✓ is cycled on plun	ger lift due to water	•	
is a source of na	ural gas for injection into an oi	l reservoir undergoin	g ER
is on vacuum at t	ne present time; KCC approval	Docket No	·
is not capable of	producing at a daily rate in ex	cess of 250 mcf/D	
I further agree to supply to the b	est of my ability any and all su	pporting documents	deemed by Commission
staff as necessary to corroborate th	s claim for exemption from tes	sting.	
	•		
Date: 09/09/2013			
Date.			
	•		
•			
	Signature	in Vide	aidoch
		ardson, Associate Re	agulatory Analyst
	Title: Dawn Klone	iuson, Associate Re	guiatory Arialyst

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.

SEP 13 2013

RECEIVED