KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:			((See Instruct	tions on Re	everse Side	∌)					
	en Flow liverabilty			Test Date	e:				I No. 15 -119 - 00131-	0000			
Company Abercron		ergy, LLC	and the second s			Lease Estes				#1	Well Nu	ımber	
County Location Meade SW SE		Section 19		TWP 32S		RNG (E/W) 29W		·	Acres Attributed				
Field Angell			Reservoir Morrow			Gas Gathering Cont Duke Energy Field				-			
Completion 2/23/60	n Date	***************************************		Plug Bac 5668'	k Total Dept	th		Packer	Set at				
Casing Si 5 1/2"	asing Size Weight		Internal Diameter 5.012"		Set at 5701'		Perforations 5571		то 5630				
Tubing Siz	ubing Size Weight 2.3/8" 4.7#		•	Internal Diameter 1.995"		Set at 5600'		Perforations None		То			
Type Com Single C		Describe)	•	Type Flui	id Production	n		Pump U	nit or Traveling	Plunger? Yes	s / No	,	
Producing		nnulus / Tubi	ng)		% Carbon Dioxide			% Nitrogen			Gas Gravity - G _g		
Tubing Vertical Depth(H)			0.08	0.08 Pressure Tap			9.41			0.73 (Meter Run) (Prover) Size 4" pipe			
5845	5 31	o 8/0	08	. 13 . 9	:00	(AAA) (DAA)	8/	09		13 _{at} 9:00		(AAA) (DAA)	
Pressure I Well on Li	•			_						at		(AM) (PM) (AM) (PM)	
	•	· · · · · · · · · · · · · · · · · · ·			OBSERVE	D SURFAC	E DATA			Duration of Shu	_{st-in} 24	Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one Meter Prover Pres. psig (Pm	Differential in	Flowing Well Heat		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration Liquid Prod		d Produced Barrels)	
Shut-In		paig (i iii) Inches H ₂ O			psig 150#	psia 164.4#	psig	psia	24 hrs	<u> </u>		
Flow													
					FLOW STR	EAM ATTE	RIBUTES		г			T	
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Extension Fac		Factor Fa		viation Metered Flo actor R F _{pv} (Mcfd)		w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
							,						
P _c) ² =		(P _w) ²		(OPEN FL	OW) (DELIV		() CALCUL P _o - 14.4) +				$_{a}^{2})^{2} = 0.2$ $_{d}^{2})^{2} = $:07	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	Choose formula 1 or 1. P _c ² - P _a ² 2. P _c ² - P _d divided by: P _c ² - P	ormula 1 or 2: D 2 - P 2		Backpre Slo	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Or Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					;					-	·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Open Flov	w		Mcfd @ 14	.65 psia		Deliverat	bility			Mcfd @ 14.65 p	sia	· · · · · · · · · · · · · · · · · · ·	
		•				· .			=	ort and that he h		-	
e facts st	tated ther	ein, and that	said report is tru	e and correc	t. Executed	this the 1	2tn	day of _	November	1		20 <u>13</u> .	
,		Witness	(if any)	re-Bo-Un-aggeriation for the Mac-mar-decore	and the second property of the			Hen	For C	Company	CC I	WICHI	
	· · · · · · · · · · · · · · · · · · ·	· For Com	nmission			-			Che	cked by	NOV	1 3 2013	
						•					RE	CEIVE	

I declare under penalty of perjury under the xempt status under Rule K.A.R. 82-3-304 on being that the foregoing pressure information a correct to the best of my knowledge and belief of equipment installation and/or upon type of coll hereby request a one-year exemption from	pehalf of the operator And statements contain based upon available pompletion or upon use to	bercrombie Energy, LLC ed on this application for production summaries and being made of the gas well	n are true and
as well on the grounds that said well:			
			2
(Check one)			
is a coalbed methane produ		·	
is cycled on plunger lift due	•		
is a source of natural gas fo		- -	<i>:</i>
is on vacuum at the present			
is not capable of producing	at a daily rate in exces	ss of 250 mcf/D	
I further agree to supply to the best of my a taff as necessary to corroborate this claim for ate: _November 12, 2013		*	d by Commissic
			•
•			
Sign	ature: Jan	Mruh Inager	· · · · · · · · · · · · · · · · · · ·

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. **KCC WICHITA**

NOV 1 3 2013