KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:				(See Instruct	tions on Re	verse Side)				
Open Flow Deliverabilty					Test Date:				API No. 15 15-119-00131 – 0000				
Company		BIE E	ENERGY, L	LC			Lease ESTES				V #1	Vell Number	
County Location MEADE SW SE				Section 19				RNG (E/W) 29W		Acres Attributed 160			
Field ANGELL				Reservoir MORRO			Gas Gathering Conne DUKE ENERGY FII						
Completion Date 2/23/60				Plug Bac 5668'	k Total Dept	th	Packer Set at						
Casing Size Weight 5 1/2" 14#				t	Internal [5.012"	Diameter	Set at 5701'		Perforations 5571'		то 5630'		
			Weigh 4.7#	ıt	Internal Di 1.995"		Diameter Set at 5600'		Perforations NONE		То		
Type Completion (Describe) SINGLE GAS WELL				Type Fluid Production NONE				Pump Unit or Traveling Plunger? Yes / No					
Producing Thru (Annulus / Tubing) TUBING				% C	de	% Nitrogen 9.41		Gas Gravity - G _g					
Vertical Depth(H) 5845'				Pressure Taps							iun) (Prover) Size E		
				o 14 at 9	.00	(AM) (PM)	(AM) (PM) Taken 09/16		20	14 _{at} 9:00	(AM) (PM)		
Well on Line: Started				2) at		(AM) (PM)	(AM) (PM) Taken		20	at	(AM) (PM)	
					_	OBSERVE	D SURFAC	E DATA			Duration of Shut-i		
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Presso psig (Pm)	Pressure Differential In Inches H ₂ 0	Flowing Temperature	Well Head Temperature t	emperature Wellhead P		$r(P_c) = (P_w) \text{ or } (P_t) \text{ or } (P_c)$		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			pois (* m/	monos H ₂	•		150#	psia 164.4#	psig	psla	24 hrs.		
Flow													
				T	Ţ· <u> </u>	FLOW STR	EAM ATTR	IBUTES					
Plate Coeffictient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psla	Press Extension P _m x h	Grav Faci F _c	or Temperature		Fac	Deviation Metered Flor Factor R F _{pv} (Mcfd)		w GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G_m	
					<u> </u>			<u> </u>					
(P _c)² =		:	(P _w) ² =		(OPEN FLI	OW) (DELIV		') GALGUL: P _e - 14.4) +		;	(P _a) ² (P _d) ²	= 0.207 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. P _a ² · P _s ² 2. P _c ² - P _d ² divided by: P _a ² - P _w ²	1. P _a ² P _b ² LOG of formula 2. P _c ² P _d ² 1. or 2. and divide		Slop D2 D2 Ass		sure Curve e = "n" or igned rd Slope		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					-		-	<u> </u>					
Open Flo				Mcfd @ 14.	65 psia		Deliverat	ility			Mcfd @ 14.65 psia		
		igne	d authority, o		·	tates that h			make th	ne above repo	ort and that he has	s knowledge of	
		_		aid report is true	e and correc	t. Executed	this the 1	6th		ecember		, 20	
			Wilness (f anv)	KANS	Rece	TION COMMIS	SION	Jen	y m	Company		
			For Comm				8 2014				cked by		
			•		C	Onservatio Wichita	IN DIVISION A. KS				· ,		

exempt status un	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator ABERCROMBIE ENERGY, LLC
	going pressure information and statements contained on this application form are true and
	st of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named.
	lest a one-year exemption from open flow testing for theESTES #1
	rounds that said well:
gan wan an ma g	
(Check	(one)
	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
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D
	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: <u>December</u>	<u>16, 2014</u>
VAS	Received Signature: Aary Mint
	NSAS CORPORATION COMMISSION
100	The Operations Manager
	DEC 1 8 2014 Title: Operations Manager CONSERVATION DIVISION

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.