## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:					(See Instruc	ctions on Re	everse Side	<i>)</i>					
Open Flow Deliverabilty					Test Date:				API No. 15 15-097-20162 - <i>0000</i>					
Company ABERCROMBIE ENERGY, LLC					Lease BERTRAM				Well Number #1				umber	
County KIOWA			Loca NE	tion	Section 14		TWP 28S		RNG (E/W) 18W		Acres Attributed 640			
Field HARDY				<u>.                                      </u>	Reservoi MISSIS	r SIPPIAN	_	Gas Gathering Cor ONEOK			ection			
Completic 4/14/73	on Dat	е			Plug Bac 4834'	k Total Dep	oth	h P		Set at				
Casing Size 5 1/2"			Weig 15.5		Internal 4.995"	Diameter	Set at <b>4860'</b>		Perforations 4780		то 4790	то 4790		
Tubing Size 2 3/8"			Weig 4.7#	ht	Internal 2.00"	Diameter	Set at 4785'		Perforations NONE		То		·-	
Type Completion (Describe) SINGLE GAS WELL					Type Flu WATE	id Productio	on	Pump Unit or Tra PUMPING U						
Producing Thru (Annulus / Tubing) CASING				ıg)	% ( 0.13	ride	le % Nitrogen 2.28			Gas Gravity - G <sub>g</sub> 0.614				
Vertical E		ł)		1	31.10	Pres	ssure Taps					Run) (P	rover) Size	
Pressure	Buildu	p:	Shut in _5/5	)	20 <u>14</u> at 9	:00	 _ (AM) (PM)	Taken 5/	6	20	14 at 9:00		(AM) (PM)	
Well on Line;			Started		20 at	at		(AM) (PM) Taken		20	at (AM) (PM)		(AM) (PM)	
				·	_	OBSERVI	ED SURFAC	E DATA			Duration of Shul	t-in 24	Hours	
Static / Dynamic Property	Dynamic Size		Girde one: Meter Prover Press psig (Pm)		lemperature   lempera		wellhead Pressure $(P_w)$ or $(P_i)$ or $(P_o)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			F5.9 ()	monos rige			136#	150.4#	psig	psia	24 hrs.			
Flow														
	<del> ,</del>			<del></del>	<del></del> -	FLOW ST	REAM ATT	RIBUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia		Press Extension  P <sub>m</sub> x h	Fac	Gravity Factor F		Flowing Femperature Factor F <sub>ft</sub> F <sub>p</sub>		Metered Flor R (Mcfd)	w GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G <sub>m</sub>	
<u>'</u>	ļ				(OPEN FL	OW) (DELIV	/ERABILITY	l_ ′) CALCUL	ATIONS		(P.	) <sup>2</sup> = 0.2	207	
(P <sub>c</sub> ) <sup>2</sup> =	<del></del> -	_:_	(P <sup>w</sup> ) <sub>5</sub> =	:	P <sub>d</sub> =		% (	P <sub>c</sub> - 14.4) +	14.4 =	<u>:</u> :		)2 =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> -P	P <sup>2</sup> -P <sup>2</sup> b c c d l l l l l l l l l l l l l l l l l		Backpressure Curving Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
	Î											1		
Open Flo	AA7			Mcfd @ 1	1 65 psia		Delivera	hility			Mcfd @ 14.65 ps			
		ioner	1 authority o		<u> </u>	states that I		•	n make t	he shove reno	ort and that he h		vledge of	
		-	n, and that s	aid report is tr	and correct History	t. Executed	d this the 1	6th		December	mit	1		
			Witness	(if eny)		DEC 1	8 2014				Company			
			For Com	nission	CO	NSERVATIO WICHITA	N Division			Che	cked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator ABERCROMBIE ENERGY, LLC and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the BERTRAM #1  gas well on the grounds that said well:
(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 is not capable of producing at a daily rate in excess of 250 mcf/D  I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.  Date:
Received KANSAS CORPORATION COMMISSION  DEC 18 2014  Title: Operations Manager  CONSERVATION DIVISION WICHITA, KS

## 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.