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

Type Test:	Flow	J.,12			(See Instruc	tions on R	everse Sid	e)	- IADILI	LOI	
Deliverabilty				Test Date:			•	API No. 15 15-097-20201 <i></i>			
Company Abercromb	oie Ene	rgy, LLC		*		Lease Einsel		1 7118 444		#1	Well Number
County Location Klowa NE NE			Section 11		TWP 28S		RNG (E/W) 18W		Acres Attributed 640		
ield Vilsott	•		Reservoir Lansing					Gas Gathering Connection Oneok		ction	
Completion Date 4/15/74			Plug Bad	Plug Back Total Depth			Packer S None	Set at			
asing Size Weight 1/2" 15.5#		Internal Diameter 4.995"		Set at <b>4933'</b>		Perforations 4169		то 4175			
bing Size Weight 3/8" 4.7#		ht .	Internal Diameter 2.00"		Set at <b>4157</b> '		Perforations None		То		
ype Comple ingle Ga		,		Type Flu water	id Production			Pump U	nit or Traveling ing Unit	g Plunger? Yes	/ No
Producing Thru (Annulus / Tubing)  Casing				. % ( 0.19	Carbon Dioxí	de .	% Nitrogen 11.96			Gas Gravity - G <sub>9</sub> 0.686	
ertical Depi	th(H)				Pres	sure Taps	·			(Meter 3" pir	Run) (Prover) Size
ressure Bu	ildup:	Shut in 9/2	0	<sub>20</sub> 13 <sub>at</sub> 9	:00	(AM) (PM)	Taken 9/	21	20	13 9.00	(AM) (PM)
Vell on Line:	:	Started		20 at		(AM) (PM)	Taken		20	at	(AM) (PM)
		1			OBSERVE	D SURFAC	E DATA			Duration of Shut	-in Hour
ynamic	Orifice Size nches)	Circle one:  Meter Prover Presso psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In						78#	92.4#			24 hrs	
Flow											
Plate		Circle one:	_		FLOW STR	EAM ATTF	RIBUTES				
Coeffiecient		Meter or Prover Pressure psia Prass		Fac	Gravity Factor F		emperature Factor Factor F <sub>pv</sub>		Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	Gravity
		. , ,									
c) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =	· .	(OPEN FLO	OW) (DELIV!		/) CALCUL. P <sub>c</sub> - 14.4) +		·	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or:  1. P <sub>c</sub> <sup>2</sup> -P <sub>a</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 <sub>w</sub>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slo As	essure Curve pe = "n" - or ssigned dard Slope	nxl	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
oen Flow			Mcfd @ 14	.65 psia		Deliverat	oility			Mcfd @ 14.65 psi	a
			n behalf of the						e above repo ovember	rt and that he ha	s knowledge of, 20 13
			,- = · · · · · · · · ·	23301				luna	mitel.	K	CC WICH
		Witness (if	any)			_	<del>√√</del>	ang.	For C	ompany	NOV 1 3 201
		For Commi	ssion		-	-			Chec	ked by	
											RECEIVE

	er 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
and that the foreq	going pressure information and statements contained on this application form are true and
correct to the bes	t 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.
	est a one-year exemption from open flow testing for the Einsel #1
gas well on the gr	ounds that said well:
(Check	one)
(encor	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	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary	y to corroborate this claim for exemption from testing.
Date: November	12, 2013
Date.	
	Signature: Amy Much
•	
•	Title: Operations Manager
	Title: Operations Manager

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 signed and dated on the front side as though it was a verified report of annual test results.

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**RECEIVED**