KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	en Flow				Test Date	:	•			No. 15		
	liverabil	ity			11/21/13	3			15-0	075-10031-		NAT. II NI
Company Linn Ope		Inc				•	Lease HCU				2120	Well Number
County Hamilton					Section 21			RNG (E/W) 40W		Acres Attributed 640		
Field Bradshaw					Reservoir Winfield				hering Conn Field Servic			
Completion Date 12/31/63				Plug Bac 2686	k Total Dep	eth .	Packer Set at		Set at .			
Casing Size Weight 9.5			•	Internal Diameter 4.090			Set at 2686		rations	то 2663		
Tubing Si 2 3/8	Tubing Size Weight 2.3/8 4.7				Internal Diameter 1.995			Set at P 2650		Perforations		
Type Completion (Describe) Single Gas				Type Fluid Production Gas - Water			Pump Unit or Traveling Plunge Pump			g Plunger? Yes Ye	/ No	
Producing		(Annulus	/ Tubing)		·% C	arbon Diox	ide		% Nitrog	en	Gas G .763	ravity - G _g
Annulus Vertical Depth(H)					Pressure Taps Flange					(Meter	Run) (Prover) Size	
2659			. 11/2	0 .	. 13 1			11	1/21		2.067 13 _{at} 11:00	
Pressure Well on Li					•							(AM) (PM) (PM) (AM) (PM)
						OBSEDVI	ED SHDEAC	E DATA			Duration of Chui	in 24 Hours
Static / Dynamic Property	Orifice Size (inches)		1	ressure Flowing Well Hea ferential Temperature Temperature		I Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration of Shut Duration (Hours)	-in Hours Liquid Produced (Barrels)	
Shut-In	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, p:	sig (Pm)	Inches H ₂ 0			psig 25	psia 39.4	Pump	psia	24	
Flow							23	33.4	Fump		24	
11011		l				FLOW STI	LEAM ATTR	RIBUTES	<u> </u>			
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P _m xh			or Temperature		Deviation Factor F _{pv}		w GOR (Cubic Fe Barrel)	Gravity
•					(ODEN EL	OWY (DELLY	/EDADII ITV	O CALCUI	ATIONS			
(P _c) ² =		_:	(P _w) ² =	· :	P _d =		/ERABILITY % (I	P _c - 14.4) +		:	(P _a)	$r^2 = 0.207$ $r^2 = $
(P _c) ² - (F or (P _c) ² - (F	_	(P _c) ² - (⊃ _w)²	hoose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Sio As	essure Curve ope = "n" - or ssigned dard Slope	n x I	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				 ;								
Open Flov	w			Mcfd @ 14.	65 psia		Deliverat	bility			Mcfd @ 14.65 ps	ia
		ned aut	nority, on			tates that h		······································	o make th	e above reno	ort and that he ha	
		_	-	d report is true			•			ecember	and that no ne	, 20 <u>13</u> .
					*			Sh	ans	-A	Lieur	KCC WICH
			Witness (if a	ny)			_			For	Company	DEC 13 20

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request						
	er Rule K.A.R. 82-3-304 on behalf of the operator Linn Operating, Inc.						
_	oing pressure information and statements contained on this application form are true and						
	of my knowledge and belief based upon available production summaries and lease records						
• •	llation and/or upon type of completion or upon use being made of the gas well herein named.						
	st a one-year exemption from open flow testing for the HCU 2120						
gas well on the gro	ounds that said well:						
(Ch-al-	1						
(Check							
	is a coalbed methane producer						
<u> </u>	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						
_	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.						
10/10	7						
Date: /2/2	1/3						
•							
	Signature: Shaw Hieruth						
	Title: Regulatory Compliance Advisor						
	1100						

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.

DEC 1 3 2013