KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				. (See Inst	truction	s on Re	everse Side	e)			•	
Ор	en Flow				Test Date	· ·	٠.	•		Λ.D.	l No. 15			
✓ De	liverabilty	•			11/21/1						075-30092-	00-00		
Company Linn Ope		nc						Lease HCU				2230 -	/ell Number	
County Location Hamilton J SESE				Section 22			TWP 23S		RNG (E/W) 40W		Acres Attributed 640		ed	
Field Bradshaw				Reservoir Winfield				Gas Gathering Con Oneok Field Servi						
Completion Date 01/07/65				Plug Back Total Dept 2489'			h		Packer Set at					
Casing Size Weight I.5" - 9.5				Internal Diameter 4.090"			Set at 2489'		Perforations 2476		то 2483			
Tubing Size Weight 2 3/8" 4.7				Internal Diameter 1.995			Set at 2480'		Perforations		То			
Type Completion (Describe) Single Gas				Type Fluid Production Gas - Water					Pump Unit or Traveling Pump		g Plunger? Yes / No Yes			
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxid			e		% Nitrogen		Gas Gravity - G _g			
Vertical D							ressure lange	•					un) (Prover) \$	Size
Pressure	Buildup:	Shut in 1	1/20) 2	0 13 at 1				Taken 1	1/21	20	13 at 11:00 A	. <mark>М</mark> (АМ) (Р	M)
Well on L	ine:	Started		20	0 at		(AI	M) (PM)	Taken		20	at	(AM) (P	M)
				1		OBSE	RVED S	SURFAC	E DATA			Duration of Shut-ir	. <u>24</u>	Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well He Tempera t	ture	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In				2			5	60	64.4	Pump		24		
Flow														
				**		FLOW	STREA	M ATTR	RIBUTES					
Plate Coeffiecient (F _b) (F _p) · Mcfd		Circle one: Meter or Prover Pressure psia		Press Gra Extension Fa ✓ P _m xh F		.,	Temp Fa	Temperature Fa		riation Metered Flow lector R F (Mcfd)		w GOR (Cubic Fee Barrel)	Flowi Flui Grav G _r	id ⁄ity
D 12 -		/m \2	_		(OPEN FL				-	,	_		= 0.207	
P _c) ² =	 :	(P _w)*	=	oose formula 1 or 2:	P _d =		<u>*</u>		P _c - 14.4) +		:	(P _d) ²		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$(P_c)^2 - (P_w)^2$ 1. P_c^2 2. P_c^2 -		1. P _c ² -P _a ² 2. P _c ² -P _d ² ded by: P _c ² -P _w ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _w	2	Backpressure Curve Slope = "n"or Assigned Standard Slope		n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
····· ••••••••••••••••••••••••••••••••		 												
Open Flor	N			Mcfd @ 14.	65 psia			Deliverat	oility			Mcfd @ 14.65 psia		
	_	-									ne above repo December	ort and that he has	J	
ie racts st	tated ther	rein, and that	said	report is true	and correc	i. Execu	ited this	s the	M	day of	_ #		, ₂₀ <u>13</u> {CC \\	
		Witness	(if an	у)				а	<u> </u>		For	Company	CC W	
		For Con	nmissio	on			_	4	·		Che	cked by	DEC 13	201
					•								RECE	EIVE

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 Linn Operating, Inc.
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 HCU 2230
gas well on the grounds that said well:
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: 12/2/13
Signature: Man Hierren
Title: Regulatory Compliance Advisor

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 13 2013

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