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## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test		,	. :	. (	See Instruct	ions on Re	everse Side	e)			
	en Flow liverabilty			Test Date 12/04/13			*		No. 15 075-20648-0	00-00	•• ••
Company Linn One	/ erating Inc	***	-	:	<u>, , , , , , , , , , , , , , , , , , , </u>	Lease HCU		77.	010 20040 (	0421	Well Number
County		Location C SE		Section 4		TWP 22S		RNG (E/	W) :	. 0421	Acres Attributed 640
Field Bradsha		- OGL	· · · · · · · · · · · · · · · · · · ·	Reservoir Winfield		220	-	Gas Gat	hering Conn Field Servic		
Completic	on Date	· · · · · · · · · · · · · · · · · · ·			k Total Dept	h .		Packer S			•
Casing Si	ize	Weight 9.5		Internal [	Diameter	Set 296		Perfo 280	rations 4'	To 2862'	
Tubing Si 2 3/8	ize	Weight 4.7		Internal E 1.995		Set 287	at	··	rations	То	
Type Com	npletion (D	escribe)		•	d Production			Pump Ur Pump	nit or Traveling	Plunger? Yes	/ No
	g Thru (An	nulus / Tubing)			Carbon Dioxi	de	,	% Nitrog	en		ravity - G <sub>g</sub>
Vertical D					Press	sure Taps de					Run) (Prover) Size
	Buildup:	Shut in 12/03	20		1:00 AM	·	Taken 12	2/04	20	13 <sub>at</sub> 11:00	
Well on L	ine:	Started	20	) at	•	(AM) (PM)	Taken		20	at	(AM) (PM)
					OBSERVE	D SURFAC	E DATA	*		Duration of Shut	t-in 24 Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one:  Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Wellhead	sing Pressure (P <sub>c</sub> ) or (P <sub>c</sub> )	Wellhe	Tubing ad Pressure (P <sub>i</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In		,	2			38	52.4	Pump	psia	24	
Flow				,							
				Tee e	FLOW STR	EAM ATT	RIBUTES	· · · · · · · · · · · · · · · · · · ·			<u> </u>
Plate Coeffiect (F <sub>b</sub> ) (F Mcfd	ient p) Pro	Circle one:  Meter or over Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fact	tor T	Flowing emperature Factor' F <sub>f1</sub>	Fa	iation ctor	Metered Flow R (Mcfd)	y GOR (Cubic Fo Barrel	eet/ Fluid
						*	•	4 .			
				(OPEN FL	OW) (DEĻIV	ERABILITY	) CALCUL	ATIONS		(P <sub>a</sub>	)2 = 0.207
(P <sub>c</sub> ) <sup>2</sup> =	<del>`</del> :	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =	9	T	P <sub>c</sub> - 14.4) +	<del></del>	:	(P <sub>d</sub>	)2 =
$(P_c)^2 - (F_c)^2 - (F_c$	$(P_a)^2$ (F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	nose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_c^2$	LOG of formula 1. or 2. and divide	P <sup>2</sup> -P <sup>2</sup>	Slo	essure Curve pe = "n" - or ssigned	nxl	_og	Antilog	Open Flow Deliverability Equals R x Antilog
		divid	ded by: $P_c^2 - P_w^2$	by:	<u> </u>	Stand	dard Slope		·L	•	(Mcfd)
										•	
Open Flov	w		Mcfd @ 14.6	35 psia		Deliveral	oility		· · · · · · · · · · · · · · · · · · ·	Mcfd @ 14.65 ps	sia
The u	undersigne	d authority, on b	ehalf of the	Company, s	states that he	e is duly a				rt and that he h	as knowledge of
the facts st	tated there	in, and that said	report is true	and correc	t. Executed	this the 5	th	day of D	ecember	. :	, 20 13
		NAME: CO		· · · · · · · · · · · · · · · · · · ·			Sh	hur	H-1	ener	KCC WICH
	• .	Witness (if an		he			· · ·			Company	DEC 4 A BOA
		For Commission	on			3.5			Chec	ked by	DEC 13 201

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 0421 B  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.
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12/6/12
Date: $\frac{12/5/13}{}$
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Signature: Shows Fredrey
Title: Regulatory Compliance Advisor
Title:ixegulatory Compilance 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 signed and dated on the front side as though it was a verified report of annual test results.

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