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

Type Test	:					(	See Ins	structio	ons on Re	verse Side	e)					
Open Flow				Test Date:					AOI	N- 45						
✓ Deliverabilty			12/04/13			API No. 15 15-075-10030-00-01										
Company Linn Operating Inc				•			Lease HCU					Well Number				
County Location Hamilton SW NE				Section 10			TWP 21S	. ,				Acres Attributed 640				
Field Bradshaw				Reservoir Winfield					Gas Gath KN Gas	ection	,	•				
Completion Date 09/05/98				Plug Back Total Depth				Packer Set at		et at						
Casing Si 4.5	Casing Size Weight 4.5 9.5				Internal E 4.090	Diamete	r	Set at 2785'		Perforations 2767'		то 2774'				
Tubing Si 2 3/8	Tubing Size Wei			nt		Internal D	Internal Diameter 1.995		Set at 2767'		Perfor	rations	То			
Type Completion (Describe) Single Gas			Type Fluid Production Gas - Water				Pump Unit or Pump		it or Traveling	Plunger	? Yes <b>Y</b> e					
Producing Thru (Annulus / Tubing)			% C	arbon	Dioxid	e '		% Nitrogen			Gas Gravity - G					
Annulus	3							··.						.777		
Vertical Depth(H)			Pressure Taps Flange								(Meter 2.067		rover) Size			
Pressure	Buildu	p:	Shut in 12	03	2	0_13_at_1				Taken_12	2/04	20	13 at.	<u> </u>	Λ Ν Λ	(AM) (PM)
Well on L	ine:					0 at	•	(	AM) (PM)	Taken		20	at		(	(AM) (PM)
							OBSE	RVED	SURFAC	E DATA			Duration	of Shut	in 24	Hours
Static / Dynamic Property	c Size		Circle one:  Meter  Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			psig (Pm)		Inches H <sub>2</sub> 0				psig 40	54.4	Pump	psia	24			
Flow			_		,											
							FLOW	STRE	AM ATTR	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> xh	Gravity Factor F <sub>g</sub>		Flowing - Temperature Factor F <sub>ft</sub>		Fa	riation actor = pv	Metered Flov R (Mcfd)	(Cubic Fe			Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =		:	(OPEN FLO	OW) (D	ELIVE		<mark>/) CALCUL</mark> P <sub>c</sub> - 14.4) +		<u> </u>			<sup>2</sup> = 0.2	.07
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		;	ose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide P2-P2		2	Backpressure Curve Slope = "n" Assigned Standard Slope				Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
			-	divid	led by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	by:	<u></u>		Stand			<del></del>				(
				. '			•									
Open Flov	w				Mcfd @ 14.	65 psia			Deliverab	oility			Mcfd @	14.65 ps	ia	
			-				•		-			e above repo	ort and th	nat he ha		, •
the facts st	tated th	nerei	n, and that s	aid	report is true	and correc	t. Exec	cuted ti	his the _5	tn A Å A	day of De	ecember /	· .		,;	20 13
			Witness	if any	y)	-		· ·	. •	SIN	u.	For	Company	W	KI	CC WIC
			For Comr	nissic	n				-		·	Che	cked by	· · · · · ·		
												27101	<b>,</b>		n	FC 12

I declare unde	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	er Rule K.A.R. 82-3-304 on behalf of the operator Linn Operating, Inc.
and that the foreg	oing 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
• •	llation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	st a one-year exemption from open flow testing for the HCU 1011
gas well on the gro	ounds that said well:
(Check	
	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.
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
t formalis and a source	As a complete the best of any oblite one and all acompating decompate decomped by Comparisons
_	to supply to the best of my ability any and all supporting documents deemed by Commissio
stair as necessary	to corroborate this claim for exemption from testing.
10/	
Date: /2/	<u>3//3</u>
	Signature: Mans Hudrer
	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.

KCC WICHITA

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