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

Type Test	: en Flo					, (	See Instruc	tions on Re	everse Side	e)	•			
	liverab					Test Date 11/21/1					No. 15 075-20470-	00-00		
Company Linn Ope		ı Inc				÷		Lease HCU		,		3421-	Well Nu	umber
County Location Hamilton NE				Section TWF			RNG (E/W) 41W			Acres Attributed 640				
····				Reservoir Chase (Winfield/Towanda/Ft.Riley)				Gas Gathering Connection Oneok Field Services				<del> </del>		
Completion		e			······································	·····	k Total Dep		i.Riley)		Set at	:es 		
11/11/90		•	Maia	h+		2722' Internal [	Diameter	Cot	,	Porfo	rations	То		· · · · · · · · · · · · · · · · · · ·
4.5" 9.5			4.090"	orameter 		Set at 2773'		8'	2702'					
Tubing Size Weight 2 3/8" 4.7			Internal I 1.995	Diameter		Set at 2707'		rations ·	То					
Type Completion (Describe) Single Gas			Type Fluid Production Gas - Water				Pump Unit or Traveling Plunger? Ye Pump			/ No	·			
Producing Annulus		(Ann	ulus / Tubir	ng)		% C	Carbon Diox	ide		% Nitrog	en	Gas Gr .766	avity -	$\overline{G_{g}}$
Vertical D		l)			•		Pres Flan	sure Taps						Prover) Size
Pressure	Puildu	n. (		/20	· · · · · ·	13 , 1			, Takon 1	1/21	20	13 at 11:00		(AM) (PM)
Well on L												at11:00		
			•		•	· · · · · · · · · · · · · · · · · · ·	OBSERVE	D SURFAC	CE DATA			Duration of Shut-	<sub>in</sub> 24	Hours
Static / Dynamic Property	Orifice Size (inches) Circle one Meter Prover Pres		ure in		Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liqu	Liquid Produced (Barrels)	
Shut-In			P9 (		1101100 1120			psig 34	psia 48.4	Pump	psia	24	<u> </u>	
Flow						,								
l					1.56		FLOW STE	REAM ATT	RIBUTES			,	1	<u>.</u>
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd			Circle one: Meter or Prover Pressure psia		Extension Fa		vity tor	Flowing Temperature Factor F <sub>11</sub>	nperature Fac		Metered Flo R (Mcfd)	OW GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
				1					1					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup>	=	:	(OPEN FL	OW) (DELIV		<b>Y) CALCUL</b> (P <sub>c</sub> - 14.4) +		;	(P <sub>a</sub> )	<sup>2</sup> = 0.2 <sup>2</sup> =	207
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	• I	(P	<sub>c</sub> )² - (P <sub>w</sub> )²	2	ose formula 1 or 2: $P_c^2 - P_a^2$ $P_c^2 - P_d^2$ ed by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Sid A	ressure Curve ope = "n" or ssigned dard Slope	n x	LOG	Antilog	De Equal:	pen Flow liverability s R x Antilog (Mcfd)
· · · · · · · · · · · · · · · · · · ·					•									
Open Flov					Mcfd @ 14.	55 psia		Delivera	bility		-	Mcfd @ 14.65 psi	ia <sup>.</sup>	
The ι	ındersi	gned	authority, o	on be	ehalf of the	Company, s	states that h	ne is duly a	authorized t	to make th	e above repo	ort and that he ha	ıs know	vledge of
					report is true				•	,	ecember			20 13
			140			,	J		M	Aur	Hi	www	K	CC WICH
			Witness		•							Company .'		EC 13 20
			For Com	missio	n			•			Che	cked by	-	RECEIVE

	der 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 Linn Operating, Inc.
	going pressure information and statements contained on this application form are true and
	et 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 HCU-3421-B
gas well on the g	rounds that said well:
(Check	cone)
	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
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	y to corroborate this claim for exemption from testing.
,	
$_{\mathrm{Date}}$ /2/	2/13
	Signature: Man Hillren
	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

DEC 1 3 2013