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

Type Test	:				(	(See Instruc	tions on Re	everse Side	e)					
= '	en Flo				Test Date	e:			API N	No. 15	•		,	
✓ Deliverabilty						11/21/13 15-075-20584-00-00								
Company Linn Operating Inc							Lease HCU					Well Number 2821-B		
County Location Hamilton <b>NWNW</b> SE <b>SE</b>					Section 28		TWP 22S		RNG (E/W) 41W		Acres Attributed 640		Attributed	
						Reservoir Chase (Winfield/Towanda)				Gas Gathering Connection Oneok Field Services				
Completion 5/20/96	on Dat	е			Plug Bac 2864	k Total Dep	th		Packer Se	et at				
Casing Size Weight				Internal I 4.052	Diameter	Set at 2905'		Perforations 2615'		то 2692'				
Tubing Size Weight 2 3/8 4.7				Internal I	Diameter		Set at 2650'		Perforations		То			
· · · · · · · · · · · · · · · · · · ·					Type Flu	Type Fluid Production . Gas - Water			Pump Unit or Traveling Plung			nger? Yes / No Yes		
Producing Thru (Annulus / Tubing) Annulus						% Carbon Dioxide			% Nitroge	n .	Gas Gravity - G <sub>9</sub>			
Vertical Depth(H) 2654						Pressure Taps Flange					(Meter Run) (Prover) Size 2.067"			
Pressure	Buildu	p: ·	Shut in 11	/20	20_13_at_1			Taken 1	1/21	20	13 <sub>at</sub> '11:0	0.014	(AM) (PM)	
Well on L	ine:		Started		20 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
			,		· · · · · · · · · · · · · · · · · · ·	OBSERVE	D SURFAC	E DATA			Duration of Sh	ut-in 24	l Hours	
Static / Dynamic Property	ynamic Siz		Circle one: Meter Prover Press	Differential	Flowing Temperature	Well Head Temperature	Wellhead	sing Pressure P,) or (P <sub>c</sub> )	i i		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0	·	,	psig 30	psia 44.4	psig psia		24			
Flow									, amp					
						FLOW STR	LEAM ATTR	RIBUTES	1	:				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact  ✓ P <sub>m</sub> xh F <sub>g</sub>		or Temperature		Fa	Factor		f Flow GOR (Cubic Fe		Flowing Fluid Gravity G <sub>m</sub>	
													1 .	
٦ ١٥			· (D.)2		•	OW) (DELIV		•				$P_a^2$ = 0.2	207	
P <sub>c</sub> ) <sup>2</sup> =	T	_ :	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or	1		1	P <sub>c</sub> - 14.4) + essure Curve			· (F	O <sub>d</sub> ) <sup>2</sup> =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_d^2$ 1. or 2. and divided by: $P_c^2 - P_w^2$ by:		Sid		ope = "n" n operation n operat		og	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
· · · · ·														
Open Flor	N			Mcfd @ 14	1.65 psia		Deliverat	oility			Mcfd @ 14.65	psia		
		-	-	on behalf of the	•		•		o make the day of	•	ort and that he		wledge of 20 13.	
			,	15,011 10 111					Mai	,_b	+in.		_v,	
		· .	Witness	(if any)	•	······································	-		1 600	For (	Coimpany	KC	<b>SMICH</b>	
			For Com	mission		-	•		· .	Che	cked by	nE	C 92 7	
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	I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
e	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
c	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 2821-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.
	Date: 12/2/13
•	
	Signature: Shan Hrenta
	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.

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