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

Type Test:	:				(-	See Inst	ructio	ons on Rev	verse Side	∍)			•		
Open Flow				Test Date	Toot Date:					No. 15					
✓ Deliverabilty			Test Date: 12/04/13					API No. 15 15-075-20454-00-00							
Company Linn Operating Inc								Lease HCU				Well Number 2231 B			
County Location Hamilton C NE			Section 22				TWP 23S		RNG (E/W) 41W				cres Attributed		
Field Bradshaw			Reservoir Winfield					Gas Gathering Con Oneok Field Servi							
Completion Date 6/23/90			Plug Back Total Depth 2605'				Packer Set at								
Casing Size Weight 9.5			Internal E 4.090	Internal Diameter . 4.090			Set at 2661'		Perforations 2518'		To 2528'				
Tubing Si 2 3/8	ubing Size Weight 3/8 4.7			Internal D 1.995	Internal Diameter 1.995			Set at 2498'		rations		То			
Type Completion (Describe) Single Gas					Type Fluid Production Gas - Water				Pump Unit or Traveling Plunger? Yes / No Yes						
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide					% Nitrogen Gas Gravity - G <sub>g</sub> .786				a <sub>g</sub>		
Vertical Depth(H) 2523'					Pressure Taps Flange					(Meter Run) (Prover) Size 2.067"					
Pressure	Buildup:	Shut in	12/03	3 2	0_13_at_1	1:00 A	M (	(AM) (PM)	Taken_12	2/04	20	13 at	11:00	ΔM(	AM) (PM)
Well on L	ine:	Started	d	. 2	0 at		(	(AM) (PM)	Taken		20	at		(	AM) (PM)
						OBSE	RVED	SURFACI	E DATA			Duratio	n of Shut-	<sub>in</sub> 24	Hours
Static / Dynamic Property	namic Size		de one: Meter r Pressure g (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		- 1	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>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		Poi	9 (1 111)	110103 1120	<u> </u>			psig 31	psia 45.4	Pump		24	4		
Flow					,										
					• ·	FLOW	STRE	AM ATTR	IBUTES						
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	Fact	Gravity Factor F		emperature Fa		riation Metered Flow		W GOR (Cubic Fee Barrel)		et/	Flowing Fluid Gravity G <sub>m</sub>
<u>.,,, .,</u>					(OPEN FL	OW) (DE	: I IVE	BARII ITV	CALCUI	ATIONS	-				
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> =		%		<sub>c</sub> - 14.4) +			· · · · · ·	(P <sub>a</sub> ) <sup>2</sup>	2 = 0.2 2 =	07 
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	•	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> .		1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> ded by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> LOG of tormula 1. or 2. and divia by:		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		Backpressure Curve Slope = "n" or Assigned Standard Slope		D X LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
													<u> </u>		
Open Flo				Mcfd @ 14.	65 psia			Deliverab	ility		·	Mcfd @	14.65 psi	a	• .
•		ned auth	ority, on t			tates the	at he		•	to make th	ne above repo				ledge of
	•		-	report is true		•	•	·			ecember				20 13
			. • •						M	au	-th	en	with	(CC	WICHI
		١	Witness (if ar	ny)			ar.				For	Company		DEC	1 3 2013
		ı	or Commiss	ion			_				Che	cked by			ECEIVE

	under the laws of the state of Kansas that I am authorized to request 04 on behalf of the operator Linn Operating, Inc.
and that the foregoing pressure information of the correct to the best of my knowledge and	ation and statements contained on this application form are true and belief based upon available production summaries and lease records
• • • • • • • • • • • • • • • • • • • •	ce of completion or upon use being made of the gas well herein named.
gas well on the grounds that said well:	
(Check one)	
is a coalbed methane	
is cycled on plunger	lift due to water I gas for injection into an oil reservoir undergoing ER
	oresent time; KCC approval Docket No
	ducing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best staff as necessary to corroborate this cl	of my ability any and all supporting documents deemed by Commission laim for exemption from testing.
•	
	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.

DEC 13 2013