RECEIVED

Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test					, (See Instruc	ctions on Re	verse Side	»)			
	en Flo liverat				Test Date 11/21/1	-				No. 15 075-20446-0	00-00	
Company Linn Operating Inc					Lease HCU	Lease			2421-	Well Number 2421-B		
County Location Hamilton SW			ion	Section 24	. ,	TWP 22S			RNG (E/W) 41W		Acres Attributed 640	
Field Bradshaw					Reservoi	-			Gas Gathering Conne Oneok Field Service			
Completion Date 7/3/90					Plug Back Total Depth 2781		oth	n Packer		Set at		
Casing Size 4.5			Weight 9.5		Internal (4.090	Internal Diameter 4.090		Set at 2808		orations 4	то 2678	
Tubing Size 2 3/8		<u> </u>	Weight 4.7		Internal I 1.995	Internal Diameter 1.995		Set at 2654		orations	То	
Type Completion (D Single Gas		n (D	Describe)			Type Fluid Production Gas - Water		1		nit or Traveling	g Plunger? Yes / No Yes	
Producing Thru (Annulus / Tubing) Annulus			% (% Carbon Dioxide			% Nitrogen		Gas G .77	Gas Gravity - G ₉ .77		
Vertical Depth(H) 2808						Pre Flar	ssure Taps				(Meter Run) (Prover) Size 2.067"	
Pressure	Buildu	ıp:	Shut in 11/	<u>/</u> 20	13 at 1		-	Taken 1	1/21	20	13 at 11:00	AM_ (AM) (PM)
Well on L	ine:		Started	· 2	0 at	•	_ (AM) (PM)	Taken		20	at	(AM) (PM)
-			Circle one:			OBSERV	ED SURFACI		1		Duration of Shut	-in 24 Hours
Static / Orifice Dynamic Size Property (inches)		:0	Meter Prover Press psig (Pm)		Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing ead Pressure or (Pt) or (Pc) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-in							36	50.4	Pump		24	
Flow												1
			O'arta and			FLOW ST	REAM ATTR	IBUTES				
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or rover Pressure psia Press Extension P _m x h		Fac	Gravity Factor F _g		Flowing Temperature Factor F ₁₁ Dev		Metered Flow R (Mcfd)	W GOR Flow (Cubic Feet/ Gra Barrel) G	
		,										
P _c) ² =		_:	(P _w) ² =		(OPEN FL	, ,	VERABILITY) % (P	CALCUL 2 - 14.4) +			(P _a)) ² = 0.207) ² =
(P _c) ² - (F or (P _c) ² - (F	-	, (F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1. or 2. and divide		Slop Ass	ssure Curve be = "n" or signed ard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
· · ·											•	
Open Flov				Mcfd @ 14		-	Deliverab	. •	,		Mcfd @ 14.65 ps	
				n behalf of the aid report is true						ne above repo Jecember	rt and that he ha	as knowledge of, 20 13
	٠	•					•	M	ran	~ +1	trierre	
			Witness (if any)			·	· · · · · · · · · · · · · · · · · · ·	· ·	For C		CC WICH
			For Comm	nission			_			Chec	cked by	DEC 13 2013

	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 infor	mation and statements contained on this application form are true and
correct to the best of my knowledge a	nd belief based upon available production summaries and lease records
	type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exem	ption from open flow testing for the HCU 2421-B
gas well on the grounds that said well	
(Check one)	
is a coalbed metha	
is cycled on plunge	
	ral gas for injection into an oil reservoir undergoing ER
	e present time; KCC approval Docket No
✓ is not capable of p	roducing at a daily rate in excess of 250 mcf/D
I further egree to cumply to the be	est of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate this	
	ciain for exemption from testing.
10/10	
Date: 12/2/3	
	Signature: Man Hierun
· · · · · · · · · · · · · · · · · · ·	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
RECEIVED