KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Op.					000 11101140	aions on ne	verse Side	!) .		<u>.</u> .			
7 p-	en Flow			Test Date):				No. 15				
	liverabilty			12/04/13	3			15-0	75-20444-0	00-00			
Company Linn Ope	rating In	С	,			Lease HCU				1411	Well Nun	nber	
County Location Hamilton SE			Section 14		TWP 21S			RNG (E/W). 41W		Acres At 640	tributed		
Field Bradshaw				Reservoir Winfield				Gas Gathering Connection Oneok Field Services					
Completion Date 6/22/90				Plug Back Total Depth 2849'				Packer Se	et at"				
Casing Size Weight 9.5			Internal E 4.090	Diameter		Set at 2903'		Perforations ·2776'		то 2790'			
Tubing Size Weight 2 3/8 4.7			Internal D	Diameter		Set at . 2754'		Perforations			· .		
Type Completion (Describe) Single Gas				Type Flui	Type Fluid Production Gas - Water				Pump Unit or Traveling Plunger? Yes / No Yes				
	Thru (Ar	nnulus / Tubing))	% C	arbon Diox	ide		% Nitroge	n	Gas G .765	ravity - G)	
Vertical Depth(H) 2783'					Pressure Taps Flange				(Meter Run) (Prover) Size 2.067"				
	Buildup:	Shut in12/0	3 2	0 13 at 1			Taken 12	2/04	20		ΔNÄ	M) (PM)	
Well on Li	•									at			
					OBSERVE	ED SURFAC	E DATA			Duration of Shu	t-in 24	Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Wellhead (P _w) or (F	Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		ibing d Pressure (P ₁) or (P _c)	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		paig (i iii)	liiches 11 ₂ 0			psig 39	53.4	Pump	psia	24			
Flow													
					FLOW ST	REAM ATTR	RIBUTES				.		
Plate Coeffiect (F _b) (F _b Mcfd	ient _p) <i>Pr</i>	Circle one: Meter or Prover Pressure psia		Grav Fact	tor	Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		v GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
				·					-				
			,	(OPEN FL	OW) (DELI\	/ERABILITY) CALCUL	ATIONS		(P) ² = 0.20	7	
$P_c)^2 = _{}$: :	(P _w) ² =_	Choose formula 1 or 2	P _d =		% (I	P _c - 14.4) +	14.4 =	·:	(P _d)2 =	<u> </u>	
(P _c) ² - (F or (P _c) ² - (F		(P _c) ² - (P _w) ² 1. P _c ² - F 2. P _c ² - F divided by: P _c ²		LOG of formula 1, or 2. and divide	P _c ² -P _w ²	Backpressure Curve Slope = "n"or Assigned Standard Slope		l n x la	og [Antilog	Deliv Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				-									
						<u></u>	- 1						
Open Flov			Mcfd @ 14.		• .	Deliverat	•	· · · · · · · · · · · · · · · · · · ·	r	Mcfd @ 14.65 ps			
						*				rt and that he h			
e facts st	tated there	ein, and that sai	d report is true	and correc	t. Executed	d this the <u>5</u>	in M	day of De	- H	Musa		o <u>13 </u>	
		Witness (if	any)			-	, -		For C	Company			
												C 13	

	y 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 ar	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 1411 C
gas well on the grounds that said well	
(Chack and)	
(Check one) is a coalbed metha	ano producer
is cycled on plunge	
	ral gas for injection into an oil reservoir undergoing ER
	e present time; KCC approval Docket No.
	roducing at a daily rate in excess of 250 mcf/D
• To the supulse of p	is a constant of the constant
I further agree to supply to the be	est of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate this	claim for exemption from testing.
Date: 12/5/13	
Date	
	1/
•	
	Signature: Mann Hickrets
	Signature: Mann Hilbrett 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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