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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	•			(See Instruct	tions on Re	verse Side)				
Ор	en Flow	•		•	Test Date				ADLA	lo. 15			
✓ Deliverabilty			11/21/1		•			75-20477-0	00-00				
Company Linn Operating Inc						Lease HCU				. 1820	Well Nu B	mber	
County Location Hamilton C NE				Section 18		TWP 22S			V)	Acres Attributed 640			
Field Bradshaw				Reservoir Winfield			Gas Gathering Connection Oneok Field Services				,		
Completion Date 11/3/90				Plug Bac 2820'	k Total Dept	th	Packe		et at				
Casing Size Weight 9.5				Internal E 4.090	Diameter	Set at 2854'		Perforations 2703'		то 2807'			
Tubing Size Weight 2 3/8 4.7				Internal Diameter 1.995		Set at 2730'		Perforations		То ·			
Type Completion (Describe) Single Gas				Type Fluid Production Gas - Water				Pump Unit or Traveling Pump		g Plunger? Yes / No Yes			
Producing Thru (Annulus / Tubing) Annulus				% C	Carbon Dioxi	de			n	Gas Gravity - G _g .7510			
Vertical Depth(H) 2755'				Pressure Taps Flange				•			(Meter Run) (Prover) Size 2.067"		
ressure	Buildup	Shut in	11/20) 2	0 13 at 1		<u> </u>	Taken 1	1/21	20		ΔΜ	(AM) (PM)
Vell on L	ine:				0 at		(AM) (PM)	Taken		20	at		(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut	-in <u>24</u>	Hours
Static / ynamic roperty	atic / Orifice namic Size poety (inches)		e one: eter Pressure (Pm)	Pressure Differential in Inches H ₂ 0	- 1	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			,				90	psia 104.4	Pump	psia	24		
Flow													
						FLOW STR	EAM ATTR	RIBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact ✓ P _m x h F _g		or Temperature		Deviation Factor F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m
°c)2 =		<u>:</u> (1	P _w) ² =	:	(OPEN FLO	OW) (DELIV 		') CALCUL P _c - 14.4) +		:) ² = 0.2	07
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² -P _a ² LOG of formula 1. or 2. 2. P _c ² P _d ² and divide by: P _c ² -P _c ² by:		P _c ² -P _w ² .	Slo As	Backpressure Curve Slope = "n"or Assigned Standard Slope		og [·	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		 -			05	·	D-11	- 1154					
pen Flor			-itu t-	Mcfd @ 14.			Deliverat			٠.	Mcfd @ 14.65 ps		la de la C
	_		•				•				rt and that he ha		ledge of 20 13
e lacis si	ialed ine	erein, and t	nat said	report is true	and correc	ı. Executed	mis the	M		1 /	rodrets		20
		· W	itness (if an	ny)		<u> </u>	;	<i>)</i>			Company	KCC	WICH
		Fo	r Commissi	ion		and the state of t	-			Chec	cked by		
												UEL	: 13 20

I declare under penalty of perjury 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 information and statements contained on this application form are true and 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 1820 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
Date: 12/2/13 Signature: Mann Human
Signature: 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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