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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	tions on Re	verse Side	e)				
Op	en Flow	•			~ D-1-				ADI	NI: 45			
✓ Del	liverabilt	у .			Test Date 12/04/13					No. 15)75-20448-(00-00		
Company Linn Ope		Inc				<u> </u>	Lease HCU					Well 1	Number
County Location Hamilton NW			Section 31		TWP 22S			RNG (E/W) 1W		Acres Attributed 640			
Field Bradshaw			Reservoir Winfield				Gas Gathering Connections Oneok Field Services						
Completion Date 6/9/90			Plug Back Total Depth 2693			Packer Set at							
Casing Size Weight 4.5" 9.5			Internal Diameter 4.090"		Set at 2729'		Perforations 2576'		To 2596'				
Tubing Si 2 3/8"				Internal D 1.995		Set at 2558'		Perforations		То			
Type Com Single C	•	(Describe)			Type Flui Gas - \	d Production Nater	า		Pump Un Pump	it or Traveling		Yes / No Yes	
Annulus	S	Annulus / Tul	oing)		% C	Carbon Dioxi	de		% Nitroge	en		as Gravity 822	- G ₉
Vertical D	Pepth(H)					Press Flan	sure Taps ge				•	Meter Run) 2.067"	(Prover) Size
Pressure	Buildup	Shut in _	2/03	2	0_13_at_1	1:00 AM	(AM) (PM)	Taken 12	2/04	20	13 _{at} 11	1:00 AM	(AM) (PM)
Well on L	.ine:	Started		2	0 at		(AM) (PM)	Taken		20	at		_ (AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of	Shut-in 2	4 Hours
Static / Dynamic Property	Orifice Size (inches	Prover Pre	r essure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Wellhead	Pressure	Wellhea	ubing ad Pressure (P _t) or (P _c) psia	Duratio (Hours	- 1	quid Produced (Barrels)
Shut-In							30	44.4	Pump		24		
Flow													
		<u> </u>			·	FLOW STR	EAM ATT	RIBUTES			· ·		
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Grav Fac F _s	tor Temperature		Fa	iation actor pv	Metered Flor R (Mcfd)	. (Cı	GOR ubic Feet/ Barrel)	Flowing Fluid Gravity G _m
(P _c) ² =		: (P _w)) ² =	:	(OPEN FLO	OW) (DELIV		') CALCUL P _c - 14.4) +			•	$(P_a)^2 = 0$ $(P_d)^2 = 0$.207
(P _c) ² - (F	.	(P _c) ² - (P _w) ²	Cho	cose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpre Slo 	essure Curve pe = "n" - or ssigned dard Slope	nxl	og	Åntilog		Open Flow reliverability als R x Antilog (Mcfd)
Open Flov	w			Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.	65 psia	
The u	undersig	ned authority	, on b	ehalf of the	Company, s	states that h	e is duly a	uthorized to	o make the	e above repo	rt and that	he has kno	owledge of
		erein, and tha		•					day of De				, ₂₀ <u>13</u> .
		Witne	ss (if an	у)				Sho	kur	Atu	MUM Company	RCC '	WICHIT
						•				•			
		For Co	ommissi	on						Che	cked by	DEC	1 3 2013

	under the laws of the state of Kansas that I am authorized to request 04 on behalf of the operator_Linn Operating, Inc.
	eation and statements contained on this application form are true and
orrect to the best of my knowledge and	d belief based upon available production summaries and lease records
f equipment installation and/or upon typ	pe of completion or upon use being made of the gas well herein named.
I hereby request a one-year exempt	tion from open flow testing for the HCU 3121-B
as well on the grounds that said well:	
(Check one)	
is a coalbed methane	e producer
is cycled on plunger	lift due to water
is a source of natura	al gas for injection into an oil reservoir undergoing ER
is on vacuum at the p	present time; KCC approval Docket No
is not capable of pro	oducing at a daily rate in excess of 250 mcf/D
•	t of my ability any and all supporting documents deemed by Commission
taff as necessary to corroborate this c	laim for exemption from testing.
note: 12/5/13	
Date: 1 / 1/	
	Signature: Mann Hierreth
	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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