KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	· ·	0	-OINI ŞI			ctions on Re				,			•	
Оре	en Flow		*	Took Date	*			A DI	No. 15					
✓ Deliverabilty Test Da 11/21/				11/21/13		•			075-20728-0	00-00				
Company Linn Operating Inc					***************************************		Lease HCU			Well Number 1521 C				
County Location Hamilton NW SE SE			Section 15		TWP 22S			RNG (E/W) 41W		Acres Attribute 640				
Field Bradshaw				Reservoir Chase	Reservoir Chase				Gas Gathering Connections Oneok Field Services					
Completio 9/7/00	on Date			Plug Bac 2858'	k Total Dep	oth		Packer S	Set at					
Casing Size Weight 4.5 10.5			Internal D 4.052	Internal Diameter 4.052		Set at 2902'		Perforations 2716'		то 2734'				
Tubing Size Weight 2 3/8 4.7			Internal D 1.995	Diameter	Set a	Set at		Perforations		То				
Type Completion (Describe) Single Gas				Type Flui Gas - \	d Production Nater	on ·	Pump Unit or Pump		•	raveling Plunger? Yes / No Yes				
Producing Annulus		nnulus / Tubing)		% C	arbon Diox	kide ,	•	% Nitrog		,	Gas Gra	vity - G	g	
Vertical Depth(H) 2725'					Pressure Tap Flange			ps			(Meter Run) (Prover) Size 2.067"			
	Buildup:	Shut in11/2	20 2	0_13_at_1			Taken_11	1/21	20	13 at	11:00 A	λM_ (AM) (PM)	
Well on Li	ine:	Started	2	0 at		_ (AM) (PM)	Taken		20	at _		(AM) (PM)	
					OBSERV	ED SURFAC	E DATA			Duration	of Shut-i	_n 24	Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	lemperature lemperat		ture (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In		poig (i m)				general psig	psia 44.4	Pump		24				
Flow				-										
					FLOW ST	REAM ATTR	RIBUTES			l		I		
Plate Coeffieci (F _b) (F Mcfd	ient _p) Pi	Circle one: Meter or rover Pressure psia	Press Extension √ P _m xh	sion Factor		Flowing Temperature Factor F _{ft}		Deviation Factor F _{pv}		W	(Cubic Feet/		Flowing Fluid Gravity G _m	
				(OPEN FL	OW) (DELI	VERABILITY) CALCUL	ATIONS			(5.12			
(P _c) ² =	<u> </u>	(P _w) ² =_	:	P _d =			P _c - 14.4) +		;	Γ.	(P _a) ² (P _d) ²	= 0.20		
(P _c) ² - (F or (P _c) ² - (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^2 $		LOG of formula 1. or 2. and divide	formula 1. or 2. and divide p2_p2		Backpressure Curve Slope = "n" Assigned Standard Slope		LOG	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
•														
Open Flo	w	Mcfd @ 14.6		65 psia	5 psia		Deliverability				Mcfd @ 14.65 psia			
		ad outbority on			totoo that		•	a maka th	a above rene				ádan of	
	•	ed authority, on ein, and that sai			•	•			ecember	or and th	iai ne na		eage of 20 <u>13 </u>	
							N.	nan	~ H	ile	met	KEC	C WIC	
		Witness (if	any)				-		· For	Company		2		
												, 1 TL :	: 13 2	

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 1521 C 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 staff as necessary to corroborate this claim for exemption from testing.
Signature: Man Hubrar 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.

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