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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				(See Instructi	ions on Re	everse Side	e)				
☐ Open Flow ✓ Deliverabilty			Test Date: 11/21/13		÷	API No. 1 15-075-2			0-00	•		
Company Linn Operating Inc						Lease HCU				Well Number 1720 D		
County Location Hamilton C NW			Section 17		TWP 22S	1		W)	Acres Attributed 640			
Field Bradshaw				Reservoir Winfield				ering Conni Field Servic				
Completion Date 10/8/98				Plug Bac 2988'	Plug Back Total Depth 2988'				et at			
Casing Size Weight 10.5			Internal I 4.052	Internal Diameter 4.052		Set at 3032'		ations	To 2766'			
Tubing Size Weight 2 3/8 4.7			Internal (1.995	Internal Diameter 1.995		Set at 2754'		ations	To .			
Type Completion (Describe) Single Gas					Type Fluid Production Gas - Water				it or Traveling	Plunger? Yes / No Yes		
Producing Thru (Annulus / Tubing) Annulus				% (Carbon Dioxid	de	% Nitro		Nitrogen		Gas Gravity - G _g 755	
Vertical Depth(H) 2736'					Press Flanç	sure Taps ge	ips			(Meter Run) (Prover) Size 2.068"		
Pressure	Buildup:	Shut in11/2	02	0_13_at_1	1:00 AM	(AM) (PM)	Taken 11	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)	
		Ci-d-	1 .	,	OBSERVE			· · ·		Duration of Shut-	in 24 Hours	
Static / Orifice Dynamic Size Property (inches)		Meter Prover Pressur	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In						50	64.4	Pump		24		
Flow												
					FLOW STR	EAM ATTR	RIBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Meter or Extension		Gravity Factor F _g		ing Deviation rature Factor or F _{pv}		Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	Gravity	
			· ·	<u> </u>								
P _c) ² =	:	: (P _w) ² =	· :	(OPEN FL	OW) (DELIVI		/) CALCUL P _c - 14.4) +			(P _a) (P _d)	² = 0.207 ² =	
(P _c) ² - (I , or (P _c) ² - (I	.	(P _c) ² - (P _w) ²	hoose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_w^2$	LOG of formula 1, or 2, and divide		Slo As	essure Curve pe = "n" - or ssigned dard Slope	n x L	og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w .		Mcfd @ 14.	65 psia		Deliverat	bility			Mcfd @ 14.65 psi	a	
		ned authority, on			states that he			o make the		rt and that he ha		
	_	rein, and that sai				-		day of De	-	. Serve triber free free	, 20 <u>13</u>	
					ı		N	hour	-b	Line	data same	
· · · · · · · · · · · · · · · · · · ·		Witness (if a	any)						For	company	KCC WICH	
		For Commis	sion		<u> </u>	.,			Chec	ked by	DEC 13 20	
											5F0 12 50	

I declare unde	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
	er Rule K.A.R. 82-3-304 on behalf of the operator Linn Operating, Inc.
and that the foreg	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records
of equipment insta	Ilation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the HCU 1720 D
	ounds that said well:
(Check	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
_	to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/2	113
	Signature: Man Humby
•	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

DEC 13 2013

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