KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(See Instru	ctions on Re	everse Sid	e)					
✓ Open Flow Deliverability					Test Date: API No. 15 7/19/2013 15-187-2					l No. 15 -187-21232-	00-00			
Company Linn Operating Inc.					7/19/20	Lease Winger					Well Number A-4 ATU-98			
County Location Stanton NW NW NW NW					Section 5		TWP 28S			RNG (E/W) 39W		Acres Attributed 640		
Field Hugoton-Panoma					Reservoi	r		Gas Gathering Cont Jayhawk Gas Plar						
Completion 6/20/201	on Dat				Plug Bac 2550	k Total De	pth	Packer Set at NA						
Casing Size 5.5			Weight 15.5		Internal Diameter 4.95			Set at 3124		Perforations 2306		то 2480		
Tubing Size			Weight NA		Internal Diameter		Set NA	Set at NA		Perforations NA		To NA		
Type Completion (Describe) Single					Type Fluid Production Dry Gas				Pump Unit or Traveling Plund			nger? Yes / No		
						% Carbon Dioxide				% Nitrogen 14.923		Gas Gravity - G _。 .7319		
Vertical Depth(H)						Pressure Taps Flange						Meter Run) (3.068	Prover) Size	
Pressure Buildup: Shut in 7/19 20						13 at 11:00 AM (AM) (PM) Taken 7/2							(AM) (PM)	
Well on L	ine:	;	Started 7/2	2 20	13 at 1	1:00 AM	_ (AM) (PM)	Taken 7	/23	20	13 at	1:00 AM	_ (AM) (PM)	
						OBSERV	ED SURFAC		1		Duration of	f Shut-in 72	2 Hours	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one Meter Prover Press psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperatur t	e Wellhead	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		on Liq	uid Produced (Barrels)	
Shut-In	-In 1		42.2	0	73	73	42.2	56.6	NA	NA	72 0			
Flow	ow 1 36.		36.2	13.2	73	73	36.2	56.6 NA		NA	24			
				T		FLOW ST	REAM ATTR	RIBUTES		<u> </u>			<u> </u>	
Plate Coefficeient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or ever Pressure psia	Press Extension P _m x h	Grav Fac	tor	Flowing Temperature Factor F _{ft}	Fa	Deviation Metere Factor F F p (Mo		OW GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
		56	.6	25.844	1.169		.9877 1			146.566		0 0		
_{P 12 -} 3	.2036		(P)² =	2.5604	•	OW) (DELI	VERABILITY	•		<u> </u>		$(P_a)^2 = 0$ $(P_d)^2 =$		
			(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 _c ²	LOG of formula 1. or 2. and divide P2. P		Backpressure Slope = "		ve n x LOG		Antilog	Open Flow		
2.9966	3	.64	132	4.659	.668		.85		.56	80	3.6986	542	2.086	
Open Flo	l		Mcfd @ 14.65 psia				Deliverat	Deliverability			Mcfd @ 14.65 psia			
The t	undersi			n behalf of the	Company, s						ort and that	he has kno	wledge of	
ne facts s	tated th	nerei	n, and that sa	aid report is true							M- a	1	, 20 <u>13</u> .	
			Witness (if any)	KANSAS	CORPORAT	TION COMMISS	SION SITE	wii H.	ildreth	Company	ur TV	unt	
			willess (, ally)		AUG 0	5 20 1 2			, 511				
			For Comm	nission	C	•	ON DIVISION			Che	cked by			

WICHITA, KS