KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instru	ictions on F	Reverse	e Side)								
✓ Open Flow Test Date:) :				APIN	lo. 15						
De	liverab	oilty			7/8/201	3	<u> </u>			15-0	67-21735-0	00-00					
Company Linn Operating Inc.							Lease Hickok					Well Number D-4 ATU-64					
County Location Section Grant NW NW NW NW 23										RNG (E/W) 38W			Acres Attributed 640				
Field Reservoir Hugoton-Panoma Chase						•	Gas Gathering C Jayhawk Gas F										
Completion Date Plug Back 6/12/2013 2710						k Total De	pth	•		Packer Se N/A	t at						
Casing Size Weight 5.5 15.5			arrow other VIII A. C.	Internal [Diameter	neter Set at 3114			Perforations 2405			то 2588					
Tubing Size Weight N/A N/A			-		Internal (Diameter	ameter Set at N/A			Perforations N/A			To N/A				
Type Completion (Describe) Single				Type Flui Dry Ga	on				Pump Unit or Traveling Plunge NO			/ No					
											% Nitrogen 16.3480			Gas Gravity - G _g			
Vertical Depth(H)						Pre	Pressure Taps							(Meter Run) (Prover) Size			
3121						Flange							3.068				
Pressure	Buildu	p: Shutin _	7/8	20	13 at 1	1:00 AM	_ (AM) (PM	l) Take	_{en_} 7/1	1	20	13 at	11:00	AM 	(AM) (PM)		
Well on L		Started _					_ (AM) (PM				20	13 at	11:00	AM_	(AM) (PM)		
					OBSERVED SURFACE DATA			TA	T			n of Shut-in 72 Hou		Hours			
Static / Dynamic Property	nic Size Prover Pres		er essure	Pressure Differential in Inches H ₂ 0	Differential Temperature		Wellhea	Casing fellhead Pressure P_{w}) or (P_{t}) or (P_{c}) usig psia		Wellhead (P _w) or (Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	.5	9.9	9.9		94 94		9.9	24.		NA	NA	72		0			
Flow	.5 8.6			30.8	94 94		8.6	23		NA NA		24	24		0		
						FLOW ST	REAM ATT	RIBUT	ES			<u> </u>			1		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressu psia	Meter or Prover Pressure		Gravity Factor F _g		Flowing Temperature Factor F _{it}	Temperature Factor		ation tor	Metered Flow R (Mcfd)	v	GOR (Cubic Feet Barrel)		Flowing Fluid Gravity G _m		
1.214		23	2	26.616	1.165	.!	9688	1			36.469	0			0		
			•		(OPEN FL	OW) (DELI	VERABILIT	Y) CAI	LCULA	TIONS			(P.)	= 0.2	207		
(P _c) ² =	5905	_: (P _w)2 =	5290 :	P _d =		_%	(P _c - 1	4.4) + 1	14.4 =	:			=			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$		$(P_c)^2 - (P_w)^2$	2. P _c ² - P _d ² 1. or 2. and divide		formula 1. or 2. and divide	P _c ² - P _w ²	SI A	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)			
.3835				$\frac{1000 \text{ded by: } P_c^2 - P_w^2}{237}$.85			.6757		4.7392		172.832			
Open Flow Mcfd @ 14.65 psia							Deliverability				Mcfd @ 1				14.65 psia		
The i	undersi	igned authority	, on b	ehalf of the	Company, s	tates that	he is duly a					rt and th	nat he ha	s knov	ledge of		
ne facts s	tated ti	herein, and tha	t said	report is true	and correct		RECEIV	/ED		ay of Jul		ډ. ٦		pai	20 <u>13</u> 		
		Witne	ss (if any	у)			CORPORATI			ON Sh	awn Hi	.ldre	etn #	ti	edreta		
		ForC	ommissio	on			AUG 0 !	201	13		Chec	ked by			····		
		FULC	y, 111111001L	•••							2.100	,					

CONSERVATION DIVISION WICHITA, KS