Kansas Corporation Commission ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Te			O , (,							Reverse Sid		'ERABIL		ILSI			
✓ Open FlowDeliverabilty						Test Dat 8/19/20				API No. 15 15-067-21739-00-00							
Company Linn Operating, Inc.									Lease Rider	-					Well ATU-2	Number	
County Location Grant SE SE SE SE						Section 15			TWP 27S			RNG (E/W) 38 W		Acres Attribute 640		s Attributed	
Field Hugoton-Panoma						Reservoir Chase				Gas Gathering Co Jayhawk Gas Pl				tion			
Completion Date 7/11/2013						Plug Back Total Depth 2650			th		Packer Set at NA						
5.5	.5 15			ght j		Internal Diameter 4.95			Set at 3110		Perforations 2375			т _о 2578			
Tubing S			Weig NA	ght	Internal Diameter NA			Set at NA		Perforations NA		To NA					
Type Completion (Describe) Single						Type Fluid Production Dry Gas					Pump Unit or Traveling Plune NO				s / No)	
Producing Thru (Annulus / Tubing) Annulus						% Carbon Dioxide .0740					% Nitro 15.72		Gas Gravity - G _g .7270				
Vertical Depth(H)						Pressure Taps Flange									(Meter Run) (Prover) Size 3.068		
Pressure Well on L		•	Shut in 8/ Started 8/2			0 13 _{at} 1 0 13 _{at} 1						2		3 _{at} 11:00			
			· · · · · · · · · · · · · · · · · · ·				OBSE	RVE	D SURFAC	E DATA			Du.	ration of Shu	11-in 7	2 Hour	
Static / Dynamic Property	(inches)		Circle one Meter Prover Press psig (Pm	eter Differential		Flowing Well He Temperature t				Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In	ut-In 1.25		26.1	0	2	70	70		26.1	40.5	NA	NA	7	2	0		
Flow	1.25	1.25 22.4		15.2		70	70		22.4 36.8		NA	NA	24		0		
Plate			Circle one:	T				STR	EAM ATTF	RIBUTES					 	T	
Coefficient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia		Pres Extens	sion Fact		tor le		emperature Factor F ₁ ,	mperature Fact		tor R		ow GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
7.771		36	.8	23.651		1.181		.99	905	1		214.994		0		0	
o _c) ² = 1	.6403	3.	(P 12 -	_ 1.3542		(OPEN FLO				') CALCUL P _a - 14.4) +) ² = 0		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$			(P _c) ² - (P _w) ²		1 or 2: 2 a 3 2 a 3 2 a 4 2 - P _w 2	P _d = LOG of formula 1. or 2. and divide by: P _c 2. P _w			Backpressure Cur Slope = "n"		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mctd)		
1.4333		0.2860 5.		5.011		.7		.85			0.5	949	3.9350		846.0117		
pen Flov				Mcfd @					Deliverab		···			d @ 14.65 ps			
						Company, st					_	e above rep	ort a	nd that he h	as kno	wledge of	
												ldreth	Ď	hans	-+	tien	
			Witness (if any)		10-7140			7 2013			For	Compa	any			
*****	-		For Comm	nission			AU	U 4	. r ZUIÐ			Che	cked t	ру			

CONSERVATION DIVISION WICHITA