KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instru	uctions on Re	everse	Side)							
✓ Op	en Flo	N			Test Date	,,				API	No. 15					
De	liverab	ilty			7/28/2013				15-187-21233-00-00							
Company Linn Ope		ı Inc	·			Lease Pettij ohn						Well Number 4 ATU-69				
County Location Stanton SW SW SW SW					Section 26	TWP 28S			RNG (E/ 39W	RNG (E/W) 39W		Acres Attributed 640				
Field Hugoton	-Pano	ma			Reservoir Chase		Gas Gathering Conn Jayhawk Gas Plant				on					
Completion 6/27/201	on Dat				-	Plug Back Total Depth 2650			Packer Set at NA							
Casing Size Weight 5.5 15.5			t	Internal Diamete		Set 306		Perforations 2339			To 2530					
Tubing Size			Weight NA		Internal Diameter		Set NA	at	Perforations NA			To NA				
NA Type Con	npletio	n (De			Type Flui Dry Ga		Pump Unit or Travelin			g Plunger? Yes / No						
Single	n Thru	(Anı	nulus / Tubing	<u> </u>		Carbon Dic	oxide			% Nitrog	en		Gas Gra	avity -	G _q	
Annulus	-	4. 2. 11		"	.1190		16.2890			.7380						
Vertical D		ł)			Pressure Taps Flange								(Meter F 3.068	łun) (P	Prover) Size	
Pressure	Builde	n.	7/28	В "	0 13 at 1) Take	7/3	31	20	13	3 at 11:00 /	٩M	(AM) (PM)	
Well on L			Started 7/3		13 at 1		<u>1</u> (AM) (PM) Take	_{en} 8/1	l	20	13	3 at11:00 /	AM_	(AM) (PM)	
						OBSER	VED SURFA	CE DA	TA			Du	ration of Shut-	_{in} _72	Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressu	i	Flowing Temperature t	Well Hea Temperatu	d Wellhea	Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	1		psig (Pm) 20.4	Inches H ₂ 0	70 70		20.4	34.8		psig NA	NA psia		72		0	
Flow	Flow 1		17.5	57.9	70 70		17.5	7.5 31.9		NA	NA		24		0	
	<u> </u>		<u> </u>		L	FLOW S	TREAM ATT	RIBUT	ES							
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fac	tor	Flowing Temperature Factor F ₁₁		Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
4.912		31	.9	42.977	12.977 1.164		.9905	1			243.404		0		0	
$(P_c)^2 = 1$.2110) .	(D)2 -	1.0176	(OPEN FL		IVERABILIT				:			² = 0.² ² =	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$			P _c) ² - (P _w) ²	Choose farmula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide		Backp	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
1.0040		1.	.1934 5.191		.715		0.85	0.85		0.6079		4.0546		986.9		
Open Flo	w			Mcfd @ 14.	65 psia	Delivera	Deliverability					Mcfd @ 14.65 psia				
The	unders	igne	d authority, o	n behalf of the	Company,	states tha	t he is duly	author	ized to	make t	ne above repo	ort a	and that he ha	is knov	wledge of	
				aid report is true	e and correc	t. Execut	ed this the _	1st	(day of _A			Λα	, _+	20 <u>13</u>	
·-····			Witness (i	f any)			5 2013		LICK VV.			Comp				
			For Comm	nission			_				Che	cked	by			
					С		TION DIVISION ITA, KS									