Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

								~U IU					
Witness (if any)						AUG 0 5 2013				Shawn Hildeth Harry For Company			
ne facts st	tated t	nereir	n, and that sa	aid report is true	and correct		this the 17 RECEIVED DRPORATION		hay of <u>Ju</u> DN Si	uly hawn Hi	ldeth	rai	20 13
•		gned	authority, or	n behalf of the		tates that h			make th	e above repo	·		ledge of
Open Flow Mcfd €			Mcfd @ 14.6	55 psia		Deliverabi	Deliverability		Mcfd @ 14.65 psia				
5.1806	5	1.2	2402	4.177	.621		.85		.527	78	3.3709	885	.0094
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$				1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ divided by: $P_c^2 \cdot P_w^2$	LOG of formula 1. or 2. and divide by: P 2 - P		Slope = "		n x LOG		Antilog De		liverability S R x Antilog (Mcfd)
$(P_c)^2 = 5$				4.1474 :	P _d =			calcul, - 14.4) + sure Curve		: :		$(a)^2 = 0.2$	
4.912 6		64.	.4	46.239	1.167	.9	.9905 1			262.540	0		0
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Gravity Factor F		Flowing Flowing Femperature Factor Fit	Deviation		Metered Flo R (Mcfd)	(Cubic	GOR (Cubic Feet/ Barrel)	
Flow	1		50.0	33.2	71	71	50.0	64.4	NA	NA	24	0	
Shut-In	1		59.0	0	71	71	59.0	73.4	NA	NA	72	0	
Static / Dynamic Property	namic Size		Circle one: Meter Prover Press. psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	, .	id Produced (Barrels)
vven on E					u\		D SURFACE				Duration of Sh	72	
•								AM) (PM) Taken 7/1 AM) (PM) Taken 7/2			₂₀		(AM) (PM)
3135						Flange					3.068		
Annulus .104 Vertical Depth(H)					16.34 Pressure Taps				0 7.340 (Meter Run) (Prover) Size				
Producing Thru (Annulus / Tubing) % C					arbon Dioxide %			% Nitrog	6 Nitrogen		Gas Gravity - G _g		
, , ,					• •	Type Fluid Production Dry Gas			Pump Unit or Traveling Plunger? Yes / No				
Tubing Size N/A			Weigl N/A	nt	Internal [N/A	Diameter	Set at N/A		Perforations N/A		To N/A		
Casing Size 5.5			Weigl			Diameter	Set at 3137		Perforations 2389		To 2562		
5/24/2013 2680					Cotal Depth			Packer S N/A					
Field Reservoir Hugoton-Panoma Chase									thering Conr vk Gas Plar				
CountyLocationSectionStantonSE SE SE SE14					TWP RNG (E/W) 30S 39W				/W)	Acres Attributed 640			
Company Linn Operating Inc.					Lease Nicholas					Well Number 4 ATU-5			
De	eliveral	oilty			6/28/20		**			187-21223-	-00-00		
					Test Date	٥٠			ΔPI	No. 15			