KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

	pen Flo eliverat			Ž	est Date	()				I No. 15 1-20807-00					
Company Horseshoe Operating, Inc.				/				Lease Householder				Well Number 3-29			
County Greeley			eation NE SW	Se 2	ection 9		TWP 20S		RNG (E 40W	/W)			Acres	Attributed	
Field Bradsha	aw	• • •	1 11,00 13		eservoii /infield					thering Coni	nection i	e.e 7,	:		
Completi		e			ug Bac 348 (T	k Total Dep D)	th		Packer S	Set at					
Casing S 4.5	Size	We 10.	ight 5	Int		Diameter	Set	at	Perfo 278	rations Q	MW/- W	то 2799	With the Street, Stree		
Tubing S	ize	We 4.7	ight	Int		Diameter	Set :			rations		To			
		n (Describe)		Ту		d Production		•	Pump Ur	nit or Travelin Unit - Roc	g Plung	er? Yes	/ No		
_	g Thru	(Annulus / Tul	ping)			arbon Dioxi	ide			% Nitrogen			Gas Gravity - G _g		
Vertical D		l)				Pres Flan	sure Taps					(Meter	Run) (P	rover) Size	
Pressure	Buildu	p: Shut in _	8/5	_ 20/	2 _{at} <u>3</u>		(AM) (PM)	Taken	8/6	2 20	<u>/0</u> a)	(AM),(PM))	
Well on Line: Started2			20	_ at		(AM) (PM)	Taken	<u> </u>	20	 		(AM) (PM)			
						OBSERVE	D SURFAC	E DATA			Duratio	on of Shut-	in <u>2</u>	4_Hours	
Static / Dynamic Property	Dynamic Size		r Pressi r Different ssure in m) Inches	ntial Temp	owing perature t	Well Head Temperature t	Wellhead (P _w) or (F	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		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In				-			paig	44	psig	psia	é	24			
Flow												1			
Plate		Circle one:	<u> </u>	<u> </u>		FLOW STR	EAM ATTR	IBUTES			 r-	! !			
Plate Coeffictient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia	Pres Extens	ion	Gravity Factor F		Flowing Deviation Factor F _{pv}		ctor	or R		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
				(OP	EN EL ()W) /DELIV	ERABILITY) CALCIII	ATIONS			-		L	
(P _c) ² =		_: (P _w)	·	:	P _d =			_c - 14.4) +		<u> </u>		(P _a) ²	e 0.2 e	07	
$(P_c)^2 - (P_n)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	1. P _c ² - F 2. P _c ² - F divided by: P _c ²	2 L 8 f 0 2 ar	LOG of formula 1. or 2. and divide by:		Slop	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		ntilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
		•				÷									
Open Flo)w		Mcfd @	14.65 ps	ia		Deliverab	ility			Mcfd @	14.65 psi			
		gned authority			correct	Executed	this the	25	o make th			 -		edge of	
		Witne	ss (if any)			CT 2 8	-		Jani	ce Ke	ple Company	y_			
		For Co	nmission		KC	C WICI	HITA -			Che	cked by	<u> </u>			
											,				

	der penalty of perjury under the laws of the state of Kansas that I am authorized to required by A.R. 22.2.204 on behalf of the state of Horseshop Operating Jpc	uest
and that the fore correct to the be of equipment ins	nder Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. egoing pressure information and statements contained on this application form are true st of my knowledge and belief based upon available production summaries and lease receitallation and/or upon type of completion or upon use being made of the gas well herein namuest a one-year exemption from open flow testing for the Householder 3-29	ords
	rounds that said well:	
I further agre	is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D te to supply to the best of my ability any and all supporting documents deemed by Commercy to corroborate this claim for exemption from testing.	issic
	Signature:	

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.