KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:					((See Instruc	ctions on Re	verse Sid	e)				
Op	en Flo	w				Tool Date				۸۵	l No. 15			
De	liverat	ilty				Test Date]/				5- ·20652-00	-00		
Company		pera	ting, Inc.			- 		Lease Lesser		•		. 1	Well N	umber
County Hamiltor	٦	·	Loca C NE/			Section 23		TWP 21S		RNG (E/W) 41W		·	Acres Attributed	
Field Bradsha	w	•				Reservoir Winfield				Gas Ga Oneok	thering Conn	ection		·····
Completion 12/4/97	on Da	le				Plug Bac 2827	k Total Dep	oth		Packer !	Set at			
Casing S 4.5	ize		Weig 10.5	ht		Internal [Diameter	Set a 283		Perfo 277	rations 4	To 2786		
Tubing Si 2.375	Tubing Size Weight 2.375				t Internal Diamete			Set at 2752		Perfo	rations	То		
Type Completion (Describe) Single					Type Flui Water	Type Fluid Production Water			Pump Unit or Traveling Plunge Pump Unit - Rod			er? Yes / No		
Producing	_	(Anr	nutus / Tubii	ng)		% C	Carbon Diox	ide		% Nitrog	jen	Gas (Gravity -	G,
Vertical D		1)					Pres Flan	ssure Taps				(Mete	r Run) (F	Prover) Size
Pressure	Buildu	p:	Shut in	9	-8 20	o	10:50	(PM)	Taken	9.	920	// at /0,	50	(AM)(PM)
Well on L	ine:	:	Started		20) at		(AM) (PM)	Taken		20	at		(AM) (PM)
, 							OBSERVE	ED SURFACI	E DATA			Duration of Shu	ıt-in <i>C</i>	24 Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	fferential Flowing Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₀)		Y .		ld Produced (Barrels)
Shut-In	.66	35	paig (t iii		menes ri ₂ 0			psig	54	psig	psla	24		
Flow						•						,		
·							FLOW ST	REAM ATTR	IBUTES		······································			
Plate Coeffieci (F _b) (F Mcfd	ient ,	Pro	Circle one: Meter or ver Pressure psia		Press Extension	Grav Fact F _c	tor	Flowing Temperature Factor F _{tt}	F	riation actor F _p ,	Metered Flow R (Mcfd)	v GOF (Cubic I Barre	Feet/	Flowing Fluid Gravity G _m
(P _c) ² =		:	(P _w) ²	=	•	(OPEN FLO		/ERABILITY) % (F) CALCUL 2 - 14.4) +) ² = 0.2	207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² · (P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _x ²		LOG of formula 1, or 2, and divide by:		Backpressu Slope =		- 1	roe	Antilog	O De Equal:	pen Flow liverability s R x Antilog (Mcfd)
Open Flor	N			_	Mcfd @ 14.6	65 psia		Deliverab	ility			Mcfd @ 14.65 p	sia	
					ehalf of the tree				18	o make th	ne above repo	rt and that he h	ias know	rledge of
							· · · · · · · · · · · · · · · · · · ·	_		anic	e Rip	eley	RE	CEIVED
			Witness For Com		,	W de la constitución de la const		_		/ 	File C	company//	00	T 2 1 2011
												·	KCC	T 2 1 2011 WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Lesser #1	
gas well on the grounds that said well:	
(Check one) 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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commissions staff as necessary to corroborate this claim for exemption from testing.	on
Date: 10-18-11	
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.