KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:						í	(See Instr	uct	ions on Re	verse Side	9)						
□ Or	en Flo	W																
De De	liverab	ity				7/2st	Date	^{p:} //						No. 15 20704-00- 0	10			
Company		erai	ting, Inc.			yes	"/	<i>I.I</i>		Lease Hermar	ın	<u></u>				1	Well N	lumber
County Location Hamilton SE/4				Sec 9	tion	•		TWP 23S	TWP RNG (E/W)				Acres Attributed					
Field NESWSW Bradshaw			5W	Reservoir Winfield				Gas Gathering DCP Midst						100	· · · · · ·			
Completion 9/30/99	on Date	•	·				Bac	k Total D	ept	h		Packe						
Casing S 4.5	ize		Weight 9.5				Internal Diameter 4.090			Set a 259	Perforations 2530			To 2542				
Tubing Size 2.375				Weight 1.000			Internal Diameter 2.041			Set 8 254	Perforations 2544			To 2545				
Type Con Single	npletion	(De				Туре		d Product	tion			Pump	Unil	t or Traveling Jnit - Rod	Plunge		/ No	
_	Thru	(Anr	nulus / Tubin	g)			% C	Carbon Did	oxic	de		% Nitr	<u> </u>			Gas Gr	avity -	G
Annulus																		<u> </u>
Vertical C	epth(H)						Pr Fla		sure Taps 3 0						(Meter I 2"	Run) (I	Prover) Size
Pressure	Buildup): :	Shut in	7/	25 20	Щ	at Z	1.40		(AM)(PM)	Taken	7/0	26	20	// at]]:4	0	(PM)
Well on L	ine:		Started	_	50		at		_	(AM) (PM)	Taken			20	at			(AM) (PM)
								OBSER	/EΙ	D SURFACI	E DATA				Duratio	n of Shut-	in_ <i>_</i>	24 Hours
Static / Dynamic Property	Orific Size (inche	1	Circle one: Mater Prover Press psig (Pm)	ıre	Pressure Differential In	Temper	owing Well Head perature t Wellhead Pressure Wellhead Pressure (P,) or (P,) or (P,)		lheac	(P ₁) or (P ₆)		Duration L (Hours)		Liquid Produced (Barrels)				
Shut-In	.62	5	pag (Fin)		Inches H ₂ 0	•			-	psig	67.6	psiç	<u> </u>	psla	2	4		
Flow																		
								FLOW S	TRI	EAM ATTR	IBUTES	<u> </u>	_					 1
Plate Coefficient (F _b) (F _p) Mcfd			Girde one: Meter or Prover Pressure psia		Press Extension Pmxh	Gravity Factor F _g		tor	Ter		Towing Devia		ctor R		low GOR (Cubic F Barrel		eet/ Fluid	
						(OPE		OW) (DEI	IV/E	A RABILITY)	CALCUI					-		
(P _o) ² =		:	(P _w) ² =		· · · · ·		$P_d = 1$		· ·	•	, - 14.4) +			•		(P _a); (P _d);	? = 0. ? =	207
(P _a) ² - (F or (P _a) ² - (F	P_)2	(P	₀)2 - (P _u)2	Choo 1	se formula 1 or 2: Pa² - Pa² Pa² - Pa² ed by: Pa² - Pa²	LO form	G of mula or 2. chylde	P.2. P.2		Backpres Slop Ass	ssure Curve ie = "n" or signed ard Slope		× LC	og [An	tilog	De	pen Flow diverability is R x Antilog (Mcfd)
						<u> </u>		 .	_			-						
Open Flow Mcfd @ 14.65				5 psia		<u> </u>		Deliverabi		Mc			ctd @ 14.65 psia					
				id r	eport is true						3_	make day of _	_[pove reportugue		 		viedge of 20 //
			For Comm	sslor	1					_				Check	ed by	 ,	AUG	1 1-2011

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 Hermann #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 Commission
staff as necessary to corroborate this claim for exemption from testing. Date: $\frac{8/3}{I}$
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.