KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See In:	struct	tions on Rev	verse Side	e <i>)</i>				
□ Ор	en Flow	1			Took Do					4.0	I No. 15			
De	liverabil	ty			Test Da	7-/2				07:	i no. 15 5-20704-00-(00		
Company		erat	ing, Inc.					Lease Herman	n			1	Well No	umber
County Hamilton	1		Locat SE/4	ion	Section 9) 		TWP 23S		RNG (E 40W	/W)		Acres A	Attributed
Field Bradsha	w				Reserve Winfie						thering Conn Midstrea			
Completic 9/30/99	n Date				Plúg Ba 2583	ack Total	Dept	h		Packer S	Set at			
Casing Si 4.5	ize	'	Weigh 9.5	it	Internal 4.090	Diamete	r	Set a 2595		Perfo 253	orations 0	то 2542		V
Tubing Sit 2.375	ze	ze Weight Internal Diameter Set at Perforations To				то 254 5		· · · · · · · · · · · · · · · · · · ·						
Type Com Single	pletion	(De	escribe)		Type FI Wate	uid Produ r	uction	1			nit or Traveling Unit - Rod	Plunger? Yes	/ No	
Producing		Ann	ulus / Tubin	g)	%	Carbon i	Dioxid	de	· · ·	% Nitrog	jen	Gas Gr	avity - (G_g
Vertical D	epth(H)		· · · · · · · · · · · · · · · · · · ·		- , .		Press lang	sure Taps				(Meter f	Run) (P	rover) Size
Pressure	Buildup	: 5	Shut in	5-21	20 /2 _{at}				Taken	5-2	2 20	12 at 7:0	28	(PM)
Well on Li	ine:	5	Started		20 at _			(AM) (PM)	Taken	• ,	20	at		(AM) (PM)
						OBSE	RVE	D SURFACE	DATA	•		Duration of Shut-	in <u>2</u>	4_Hours
Static / Dynamic Property	Orifice Size (inche:	ļ	Circle one: Meter Prover Pressi psig (Pm)	Pressure Differentia in Inches H ₂ (Temperatur	Well H Temperat		Casi Wellhead I (P _w) or (P _t	Pressure) or (P _c)	Wellhe	Tubing ead Pressure r (P ₁) or (P _c)	Duration (Hours)		d Produced Barrels)
Shut-In	.62	5	P=13 (1 11.1)	1				psig	61	psig	psia.	24	1	<u>-</u>
Flow					!									
						FLOW	STR	EAM ATTRI	BUTES	·		<u> </u>		···
Plate Coeffieck (F _b) (F _p Mcfd	ent		Circle one: Meter or ver Pressure psia	Press Extension	Fa	avity actor F _g	Te	Flowing emperature Factor F ₁₁	Fa	iation ctor : pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
					(ODEN E	OW) (DI		ERABILITY)	CALCUI	ATIONS				
(P _c) ² =	· · · · · · · · · · · · · · · · · · ·	:	(P _w) ² =	 	P _d :		%	-	- 14.4) +		•	(P _a) ²	2 = 0.2 2 =	07
(P _c) ² - (P or (P _c) ² - (P		(P _c)²- (P _w)²	Choose formula 1 or $ \begin{array}{ccc} 1. & P_c^2 - P_a^2 \\ 2. & P_c^2 - P_d^2 \\ \end{array} $ divided by: $P_c^2 - P_c^2$	LOG of formula 1. or 2. and divid		2	Slop	sure Curve e = "n" origned rd Slope	nxl	roe	Antilog	Del Equals	pen Flow iverability FR x Antilog (Mcfd)
						 								
Open Flow	v			Mcfd @ 14	4.65 psia		·	Deliverabil	itv	<u></u>]		Mcfd @ 14.65 psi	a	
		ned	authority or	 		states th	at ha			make th		rt and that he ha	******	ledge of
				id report is tru	ue and corre		uted 1	this the	5/2	day of	Juni	Pipley		20 <u>12</u> .
			Witness (ii		+	UL 0	5 2	012		Jun	For C	complany		
·			For Comm	ssion	K	CC W	- ICh	ATIL			Chec	ked by		

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:
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: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
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.