KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	(See Instructions on Reverse Side)													
Open Flow					Tost Date				40	No. 15					
Deliverabilty				4-3-1	4		API No. 15 075-20704-00-00								
Company Horseshoe Operating, Inc.							Lease Hermann	Lease Hermann			Well Number				
County Hamiltor		Local SE/4	Location SE/4			Section 9		TWP 23S		W)	Acres Attributed 160		Attributed		
Field Bradshaw				Reservoir Winfield						Gas Gat	hering Conne Midstream	ection n			
Completic 9/30/99	ө		·	744	Plug Bac 2583	k Total Depi	th		Packer S	Set at		······································			
Casing S 4.5	ize		Weig 9.5	ht		Internal E 4.090	Diameter	lameter Set at 2595		Perforations 2530		то 2542			
Tubing Si	ize		Weight			Internal D	Diameter	Set at		Perforations		To			
2.375 Type Completion (De			4.00	<u>) </u>	2.041 Type Fluid Production			2547 2544			2545 veling Plunger? Yes / No				
Single	npietioi	1 (D6	escribe)			Water	a Production			Pump Unit - Rod		lungers les / No			
Producing Thru (Annulus / Tubing)						% C	arbon Dioxi	de		% Nitrog	Gas Gr	Gas Gravity - G _g			
Annulus								<u> </u>							
Vertical Depth(H)						Pressure Taps Flange							(Meter Run) (Prover) Size		
Pressure	Buildu	-				0/4/at_						14 at 8.70	Ĺ	(AM) (PM)	
Well on L	.ine:	;	Started		20	D at		(AM) (PM) T	aken		20	at		(AM) (PM)	
							OBSERVE	D SURFACE				Duration of Shut-	in_ <i>a</i>	Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressure		Pressure Differential	Flowing Well Head Temperature Temperature t t		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psla		Duration (Hours)		d Produced Barrels)	
Shut-In	-/		psig (Pm)		Inches H ₂ 0	,			psig psia		psla	24	 		
Flow															
	l		<u> </u>				FLOW STR	EAM ATTRIE	UTES						
Plate			Circle one:		Press	Gravity		Flowing De		viation Metered F		GOR	Flowing		
Coeffiecient		Pro	Meter or Prover Pressure		Extension	Factor		Temperature Fa		actor R		(Cubic Fe	et/	Fluid Gravity	
	(F _b) (F _p) Mcfd		psia		Pmxh	F,		F _{it}		F _{pv} (Mcfd)		Barrel)		G _m	
													_		
<u> </u>		•	···	•	•	(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS '		(D.)	2 0.0	.07	
(P _c) ² =		:	(P_) ²	=	:	P _d =			- 14.4) +		:	(P _a)	2 = 0.2 2 =	.07	
				Choos	se formula 1 or 2	-		Backpress	ure Curve		Γ٦		Oı	oen Flow	
(P _c) ² - (P _A) ²		(F	(P _c)²- (P _w)²		. P _c ²-P _s ²	formula	LOG of formula 1. or 2.		Slope = "n"		LOG	Antilog	Del	Deliverability quals R x Antilog	
(P _c)²- (P _d)²					. P _c ² - P _d ² d by: P _c ² - P _c ²	and divide			Assigned Standard Slope					(Mcfd)	
-	1					1		 	•	_				_	
-						/		<u> </u>		-			 		
								1							
Open Flo	w_		Mcfd @ 14.65 psia					Deliverabili	Deliverability			Mcfd @ 14.65 psia			
		_							norized to	o make ti	ne above repor	rt and that he ha		1//	
the facts s	tated t	herei	n, and that s	aid r	eport is true	and correc	t. Executed	this the		day of	mizul	se la	,	20 <u>/ 4</u> .	
			Witness	(if any)				_(a	nic	Porg	ompany RECI	EIVED		
			For Com	mission							Chec	(ANSAS CORPORA ked by	TION C	UMMISSION_	

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•	der penalty of perjury under the laws of the state of Kansas that I am authorized to request								
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.								
and that the fore	going pressure information and statements contained on this application form are true and								
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records								
of equipment inst	tallation and/or upon type of completion or upon use being made of the gas well herein named.								
I hereby requ	I hereby request a one-year exemption from open flow testing for the Hermann #1								
gas well on the g	rounds 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 se to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.								
Date: <u>8-4</u>	· <u>/4</u>								
·	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.