## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(	See Instruct	ions on Rev	rerse Side	)				
Open	Flow			.Test Date				ADI	No. 15			
Delive	erabilty		4	4-28-	1/				-20661 . ()	OOO		
Company Horseshoe	Operat	ting, Inc.	· · · · · · · · · · · · · · · · · · ·	,		Lease Sinsbau	gh			2	Well Number	
County Location Hamilton C NW/4				Section 17	<del></del>	TWP 22S			RNG (E/W) 41W		Acres Attributed	
Field ;; Bradshaw				Reservoir Winfield			Gas Gathering C Oneok		ering Connec	etion		
Completion Date 10-23-99				Plug Back 2738'	Total Dept	h	Packer Set at		et at	<del></del> ··		
Casing Size Weight 4.5 10.5			Internal E 4.000	liameter		Set at 2730'		Perforations 2704'		то 2718'		
Tubing Size Weight 2-3/8 4.7			Internal D 2.000	lameter		Set at <b>2720'</b>		Perforations		То		
Type Completion (Describe) Single - Gas				Type Fluid Water	Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod			/ No	
Producing Ti Annulus	hru (Ann	nulus / Tubing)		% C	arbon Dioxid	de		% Nitroge	en	Gas Gr	avity - G <sub>g</sub>	
Vertical Depth(H)					Pressure Taps Flange				(Meter Run) (Prover) Size 2"			
Pressure Bu	ıildup: \$	Shut in	-27 2			(AM) (PM)	Taken	4-2	8 20 /	// at //:3	SO (AM) (PM)	
Well on Line	); {	Started	20	) at		(AM) (PM)	Taken		20 _	at	(AM) (PM)	
		Circle one:	.,		OBSERVE	SURFACE	DATA		C	Juration of Shut-	in_24_Hours	
Dynamic	Dynamic Size Pro			Flowing Well Head Temperature Temperatu		Wellhead Praceing		Tubing Wellhead Pressure $(P_*) \text{ or } (P_!) \text{ or } (P_e)$		Ouration (Hours)	Liquid Produced (Barrels)	
	500	psig (Pm)	Inches H <sub>2</sub> 0			psig	4/8.9	psig	psia	24		
Flow												
<del></del>			J		FLOW STR	EAM ATTRI	BUTES	L	<u> </u>		<del></del>	
Plate Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	t i	Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fact F <sub>g</sub>	or T	Flowing Temperature Factor F <sub>tt</sub>		Deviation Me Factor F <sub>pv</sub>		GOR (Cubic Fe Barrel)	Growitz	
							<u> </u>		· · · · · · · · · · · · · · · · · · ·			
(P <sub>o</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =_	:	(OPEN FLO	)W) (DEL)VI 	ERABILITY) 6 (P.	CALCUL - 14.4) +		:	(P <sub>a</sub> ) <sup>(</sup> (P <sub>d</sub> )	² ⇒ 0.207 ² <del>=</del>	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_d)^2$		c/ <sub>c</sub> ) <sup>2</sup> - (P <sub>*</sub> ) <sup>2</sup>	hoose formula 1 or 2: 1. $P_c^2 - P_c^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_d^2$	LOG of formula 1, or 2, and divide by:	Backpress Slope Slope Assi		sure Curve e = "n" origned rd Slope	n×U	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow			Mcfd @ 14.6	S5 psia		Deliverabil	litv			cfd @ 14.65 psi	a	
	forsigned	authority on	•	·	lates that he	•		make the			s knowledge of	
		n, and that said					1/1.	day of		ано глат пе па	, 20 <u>//</u>	
	<u>,,-</u>	NATE: 27					Oa	nice	Ripl	LY KANSAS	CORPORATION COMMISSI	
	****	Witness (if a				_	<u> </u>	··- · · · · · · · · · · · · · · · · · ·	For Cor	* <b>V</b>	JUN 1 6 2011	
		, or contained			٠				CHECK	, F	RECEIVED	

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request oder Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the fore correct to the be of equipment ins	egoing pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records tallation and/or upon type of completion or upon use being made of the gas well herein named. uest a one-year exemption from open flow testing for the Sinsabaugh #2
	rounds that said well:
(Chec	k 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.
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
_	ee to supply to the best of my ability any and all supporting documents deemed by Commission ry to corroborate this claim for exemption from testing.
Date: 6-14	<u>-//</u>
	Signature: <u>Janice Ripley</u> Title: <u>Production Assistant</u>

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.