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

Type Test:	:			ſ	(See Instruc	tions on Rev	erse Side	<del>?</del> )					
[] Оре	en Flow			Test Date	۵.			ΔĐI	No. 15				
Deli	iverabilty			9-11-	12				-2070 <b>9</b> -00-00	)			
Company Horsesho		ating, Inc.				Lease Mai				1	Well Nu	ımber	
County Location Hamilton C NE			Section 8		TWP 23S		RNG (E/W) 41W		<u> </u>	Acres Attributed 640			
Field Bradshaw				Reservoir Winfield				Gas Gathering Connection Oneok					
Completion Date 11-20-1999				Plug Bac 2608	Plug Back Total Depth 2608			Packer S None	et at	100000000000000000000000000000000000000			
Casing Size Weight 4.5 10.5			Internal Diameter 4.052		Set at <b>2607</b>		Perforations 2506-17;42-49		то <b>2554</b>	<sup>то</sup> <b>2554-56</b> ;61-69			
Tubing Size Weight 2.375 4.7			Internal I 1.995	Diameter	Set at 2669		Perforations		То	То			
Type Completion (Describe) Single - Gas				Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod						
Producing Thru (Annulus / Tubing) Annulus				% C	% Carbon Dioxide			% Nitrog	Gas G	Gas Gravity - G <sub>g</sub>			
Vertical Depth(H)				Pressure Taps <b>Flange</b>			(Meter Run) (Prover) Siz 2"				rover) Size		
Pressure I	Buildup:	Shut in	9-10 2	0/2 at_			Taken	9-1	/		30	(AM) (PM)	
Well on Li	ne:	Started	2	0 at							`	(AM) (PM)	
		T			OBSERVE	D SURFACE				uration of Shu	t-in 🕳	9 <u>4</u> _Hou	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Press psig (Pm)	Differential in	Flowing Well Head Temperature t		(P <sub>*</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	.750					psig	7/	psig	psia	24			
Flow							,			-			
					FLOW STR	EAM ATTRI	BUTES	•	···· - · · · · · · · · · · · · · · · ·				
Plate Coefficcion (F <sub>b</sub> ) (F <sub>p</sub> Mcfd	ent p) Pr	Circle one: Meter or rover Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fac	tor	Tomoreture		iation ctor Pv	Metered Flow R (Mcfd)	GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G <sub>m</sub>	
												1	
(P <sub>c</sub> ) <sup>2</sup> =		(P <sub>w</sub> ) <sup>2</sup>	_	•	• •	ERABILITY)			•		$_{1})^{2} = 0.2$	207	
(' c/	<del></del>		Choose formula 1 or 2	P <sub>d</sub> =	<del></del>		, - 14.4) + sure Curve	1		(۲,	<sub>1</sub> ) <sup>2</sup> =	<del></del>	
(P <sub>o</sub> ) <sup>2</sup> - (P or (P <sub>o</sub> ) <sup>2</sup> - (P	"	$(P_c)^2 - (P_w)^2 \qquad 1. P_c^2 - P_a^2$ $2. P_c^2 - P_d^2$ $divided by: P_c^2 - P_w^2$		LOG of formula 1. or 2. and divide p2 p2 p2 by:		Slope = "n" or Assigned Standard Slope		n x l	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
									1				
Open Flow	w		Mcfd @ 14.	65 psia		Deliverabil	lity		<u> </u> M	cfd @ 14.65 p	sia		
			on behalf of the				$\mathcal{O}$	- 1		· · ·		rledge of	
ite lacis si	aleu iliele	siri, ario triat s	said report is true	e and correc	i. Executed	uns me	$\overline{\bigcirc}$	day of{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Rin	lew	REC	EIVED	
		Witness	(if any)			_	7	wiw	For Cor	npany	00=		
		For Com	mission			<del></del>			Checke	ed by	<b>CC</b> 14	1 1 201; VICHIT,	
										IV.	UŲ V	NUHIT	

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 Mai 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: 10-8-12
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.