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

Type Test	t:					(	(See Instruc	tions on Rev	verse Side	<del>)</del> )					
=	oen Flo					Test Date	e: /			API	No. 15				
De	eliveral	bilty				Test Date	14			. 15-	075-2077	5 <b>-0000</b>			
Company Horseshoe Operating, Inc.					Leas Her						2	Well Number			
County Location Hamilton NW NW SE SE				SE	Section 15		TWP 23S			/ <b>W</b> )		Acres Attributed			
Field Bradsh	aw			<u> </u>		Reservoi in field					hering Conn idstream	ection	<del></del>		
Completic		te					k Total Dept	th		Packer S	iet at		-		
4-6-2002 Casing Size Weight			Internal I	Diameter	Set a					то 2 <b>51</b> 5					
4.5 10.5 Tubing Size Weight				4.052 Internal I	Set at		2508 Perforations		Z515 To						
2-3/8 ype Con	noletio	n (De	4.7			2.000 Type Flui	d Production	2533	3	Pump Ur	it or Traveling	Plunger? Yes	s / No	<u> </u>	
Single-C	Gas					Water			-	Pump	Unit				
ANA	VUI	u:	nulus / Tubir	ng)		% C	Carbon Dioxi	de		% Nitrog	en 	Gas G	Gravity - (	G <sub>g</sub>	
/ertical D	epth(l	H)						sure Taps NAL				(Meter	7 Run) (P	rover) Size	
oressure	Builda	ъ: :	Shut in	4	- <u>2</u> 2	0/4 at	8:00	(AM) (PM)	Taken	4-	320,	14 at 8.0	00	(AM)(PM)	
Veli on Li	ine:	;	Started		20	) at		(AM) (PM)	Taken		20	at		(AM) (PM)	
							OBSERVE	D SURFACE	E DATA		·	Duration of Shu	rt-in A	4 Hours	
Static / Dynamic			Meter		Pressure Differential	Flowing Temperature	Well Head Temperature	verature   Wellhead Pressure		Tubing Wellhead Pressure		Duration		d Produced	
Property (inc		Prover Presi				t	t	(P) or (P)		(P <sub>w</sub> ) or psig	(P <sub>i</sub> ) or (P <sub>c</sub> )	(Hours)		(Barrels)	
Shut-In	.5l	00							<u> 113.9</u>			24			
Flow								<u>                                     </u>					_L_		
	-			<del></del>		_	FLOW STR	EAM ATTR	BUTES			_	<del>.</del>	<u> </u>	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Gircle one: Meter or Prover Pressure psla		Press Extension ✓ P <sub>m</sub> xh		Grav Fact F <sub>c</sub>	tor 3	Temperature F		viation Metered Flow actor R F <sub>pv</sub> (Mcfd)		(Cubic Feet/ Flut Barrel) Grav		Flowing Flutd Gravity G <sub>m</sub>	
° <sub>c</sub> )²=			(P <sub>w</sub> )² ≈		_	-		ERABILITY)			,		a) <sup>2</sup> = 0.2	207	
				Choo	se formula 1 or 2:		<del></del> '		' <sub>c</sub> - 14.4) + ssure Curve			(F)	<sub>d</sub> )² =		
(P <sub>c</sub> ) <sup>2</sup> • (P <sub>a</sub> ) <sup>2</sup>		(P	<sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> . P <sub>c</sub> <sup>2</sup> -P <sub>c</sub> <sup>2</sup>	LOG of formula 1. or 2.	;	Slope = "n"		_ n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog		
(P <sub>e</sub> ) <sup>2</sup> - (P	<sup>2</sup> a) <sup>2</sup>				dby: Pc2-Pw2	and divide by:	P.2-P.2		sigлed ard Slope		_ <u> </u>			(Mcfd)	
			_							·		<del></del>	-		
pen Flov	<u></u>		<u>i</u>		Mcfd @ 14.6	55 psia		Deliverab	ility			Mcfd @ 14.65 p	l sia	-	
The u	ınders	igned	authority, c	on be	ehalf of the	Company, s	tates that h	e is duly au	thorized t	o make th	e affove repo	rt and that he h	nas knov	rledge of	
							t. Executed		4	day of	Jugg	ust,	······································	20 <u>14</u> .	
							<u> </u>	_		ani	re K	iples			
			Witness	(if any)	,	<del></del>	<del></del>	-			· For (	Coppipany	RECE!\	ÆD	
			For Comm	nission	1			_	<del>-</del>		Che	KANSAS CO	RPORAT	ON COMMIS	

AUG 0 6 2014

:: ° చ	•
7 1	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request
	der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
• •	allation and/or upon type of completion or upon use being made of the gas well herein named.  est a one-year exemption from open flow testing for the Henry #2
	rounds that said well:
gas well on the g	ourido tractada won.
(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
一	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
	e to supply to the best of my ability any and all supporting documents deemed by Commissic y to corroborate this claim for exemption from testing.
Date: 8-4-/	4
	•
	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.