## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:		J			(	See Instru	ections on Re	everse Sid	e)	_,,,,,_,,					
Ope	n Flow				Test Date	a· ,			ΔР	l No. 15					
Deliverabilty 9				1-11-14				API No. 15 075-20672-00-00							
Company Horseshoe Operating, Inc.						Lease Johnso	on				1A	Well No	ımber		
County Location Hamilton E/2 SW			Section 12		TWP 24S	•		/W)			Acres	Attributed			
Field Bradshaw				Reservoii Winfield				Gas Gathering Connection Oneok			n				
Completion Date 6/30/98				Plug Back Total Depth 2361' TD				Packer	Set at						
Casing Siz 4.5	asing Size Weight .5 10.5				Internal D 4.052	Diameter		Set at 2360		Perforations 1850-51			To 2320-23		
Tubing Size Weight 2.375 4.7				Internal D	Diameter		-		Perforations 2323			To 2327			
Type Completion (Describe) Single			Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / N Pump Unit - Rod				/ No					
Producing Annulus	Thru (A	nnulus / Tubir	ng)		% Carbon Dioxide				% Nitrogen			Gas G	Gas Gravity - G <sub>g</sub>		
Vertical Depth(H)				Pressure Taps Flange				(Meter Ru 2"				Run) (P	rover) Size		
Pressure E	Suldun:	Shut in	9.	- <i>10</i> 20	14 <sub>at</sub>	7 4 4 4	_ (AM) (AM)	Taken	9-	//	20 14	at	00	(AM) (PM)	
Well on Lir	•	Started	•		·							at		(AM) (PM)	
				<del> </del>		OBSERV	/ED SURFAC	E DATA			Dura	ation of Shu	t-ın	24 Hours	
Static / Dynamic Property	Orifice Size (inches)	itice Meter D		in [	Flowing Temperature t	Well Head Temperatur	Wellhead	Casing Wellhead Pressure $(P_w)$ or $(P_l)$ or $(P_c)$		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration Liq (Hours)		quid Produced (Barrels)	
Shut-In	.500	psig (Pm)		Inches H <sub>2</sub> 0			psig	5/	psig	psia		24			
Flow															
	<del></del>					FLOW ST	REAM ATT	RIBUTES		T					
Plate Coeffiecte (F <sub>b</sub> ) (F <sub>p</sub> Mcfd		Circle one  Meter or  Prover Pressure  psia		Press Extension ✓ P <sub>m</sub> xh	Fac	Gravity Factor		Flowing Deviation Factor F <sub>rt</sub>		tor R		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
		`													
/D \2		/P \2			•	• •	IVERABILITY						) <sup>2</sup> = 02	207	
$(P_c)^2 =$	<del>:</del>	(P <sub>w</sub> ) <sup>2</sup> :		e formula 1 or 2	$P_d =$	<del></del>		P <sub>e</sub> - 14.4) +		<del>:</del>	, [	(P <sub>d</sub>	) <sup>2</sup> =		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>c</sub> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>c</sub>	1			1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> LOG of formula 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> and divide by  ded by P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> by		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slo	Backpressure Curve Slope = "n"		n x LOG		Antilog Equ		oen Flow Iverability R × Antilog (Mcfd)	
Open Flow				// // // // // // // // // // // // //	5 pera	<u> </u>	Deliveral	oility			Mata	@ 14.65 ps			
		ما میشد ا		• •	<u> </u>	states the			lo m=1:= *					dedec -f	
	_	ed authority, o			•		_	urnorized t	day of	OCTO	epert an	io that he h	as know	reage of $20 \frac{\cancel{14}}{\cancel{14}}$ .	
							-	(	Jan	ice 1	Rij	ley	F ISAS CORI	Leceived PORATION COMM	
		Witness	(if any)								For Compar	'y (/	በቦገ	0.3 2014	
		For Com	nission			J.L	•				Checked by	,	<del>- UU</del> !	<del>- U-U-211</del> 1	

A RANGE STREET	
I declare under penalty of perjury under the laws of the state of Kansas that I a	-
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Opera	ting, inc.
and that the foregoing pressure information and statements contained on this applic	tion form are true and
correct to the best of my knowledge and belief based upon available production summ	ries 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	
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 undergo	ing 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 documen	ts deemed by Commission
staff as necessary to corroborate this claim for exemption from testing.	-
Date:	
Date	
Signature:	
	7
Title: Production Assistant U	
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## 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.