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

Type Test	:				6	See Instructi	ions on Reve	erse Side	)						
Open Flow Deliverabilty					Test Date: 2-14-13				API No. 15 15-075-206710000						
Company Horseshoe Operating, Inc.					8-17-	Lease Tate						Well Number			
County Hamilton			Location SW/4 N	on .			TWP 24S		RNG (E/W) 41W			Acres Attributed 640			
Field Bradsh	aw				Reservoir Winfiel		· · · · · · · · · · · · · · · · · · ·		Gas Gathering Connection DCP Midstream		ction				
Completic 8-26-19		е			Plug Bac <b>2395</b>	k Total Depti	h		Packer Set at						
Casing Si 4.5	ize	Weight 10.5			Internal 0 4.052	Diameter	2394		Perforations 2373-79; 2383-86						
Tubing Size 2.375			Weight 4.7		Internal ! 2.0000			Set at 2390		Perforations			То		
Type Completion (I Single gas			,		Water	d Production			Pump Unit or Traveling Plunger			? Yes / No Gas Gravity - G			
Casing			nulus / Tubing	)	% C	Carbon Dioxid			% Nitrog	en 		-	¥		
Vertical D 2573	epth(F	I)				Flanç		·					Prover) Size		
Pressure	Buildu	•		2-13 2			$\overline{}$			<u> 4</u> 20/			(AN) (PM)		
Well on L	ine;	;	Started	2	0 at		(AM) (PM)	Taken		20 .	at		(AM) (PM)		
•	•					OBSERVE	D SURFACE				Duration of Sh	ut-in <u></u>	14 Hours		
Static / Dynamic Property	Orlfl Siz (inch	ze Prover Pressur		Pressure Differential re in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	erature (P.) or (P.)		Wellhe	iubing ad Pressure (P <sub>t</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)	Liqı	uid Produced (Barrels)		
Shut-In	.60	15					60		<u> </u>		24				
Flow									<u> </u>						
					<del></del>	FLOW STR	EAM ATTRI	BUTES			<del>-  </del>		7		
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter ot Prover Pressure psia		Press Extension  P <sub>m</sub> x h	Extension Fact		Flowing emperature Factor F <sub>f1</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R , (Mcfd)	(Cubic	OR : Feet/ rrel)	Flowing Fluid Gravity G <sub>m</sub>		
	1			·····	(OPEN FL	OW) (DELIV	ERABILITY)	CALCUI	LATIONS			P_) <sup>2</sup> = 0	.207		
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> = _	<u> </u>	$P_d =$	9	% <u>(</u> Р	- 14. <b>4</b> ) -	+ 14.4 <del>=</del> _	<u> </u>		P <sub>d</sub> ) <sup>2</sup> =			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose famula 1 or 2  1. P <sub>c</sub> <sup>2</sup> • P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> sivided by: P <sub>c</sub> <sup>2</sup> • P <sub>w</sub>	P <sup>2</sup> -P <sup>2</sup> LOG of formula 1. or 2. and divide		Backpressur Slope =or Assign Standard		пх	roe	Antilog	D	Open Flow eliverability is R x Antilog (Mcfd)		
						40-4-10-7	D. "				Market @ 14 65	neia			
Open Flor			<u></u>	Mcfd @ 14			Deliverab		to make "		Mcfd @ 14.65		wladge of		
				behalf of the				12	day of _	ne above repo Juni vice k	e ple	nas kno	, 20 <u>/3</u> .		
	· · · · · ·		Witness (if	any)					1	For C	lampiny	1			
<del></del>			For Commi	ssion			-			Chec	ked by K	CC V	VICHITA		

JUN 19 2013 RECEIVED

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
gas well on the grounds 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  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: $\frac{b-12-13}{}$
Signature: <u>Janice Repley</u> Title: <u>Production</u> Assistant

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.