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

Type Tes	t:						(See Instruc	ctions on Re	verse Side	<del>)</del> )					
Open Flow						Test Date: 4-3-/4				API No. 15					
Company						4-3	Lease			15-071-20600 <b>-000</b> 0			Well Number		
Horseshoe Operating, Inc.					Castlan	Foster			ONC /E	'AAD	2-7		Attributed		
Greeley C NW SE				Section 7		1WP 20S	RNG (E/W)		T - 4		640	Attributed			
Field. Bradshaw						Reservoir U. Winfield			Gas Gathering Connection DCP Midstream's						
Completion Date 9/11/93					Plug Back Total Depth 2885				Packer Set at None						
Casing S 4.5	ize		Weight 10.5			Internal Diameter 4.052			Set at <b>2937</b>		Perforations 2818		To 2826		
Tubing Size 1				ht		Internal Diameter 1,995		Set at 2840		Perforations		То			
Type Completion (Describe) Single Gas						Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No Yes						
Producing Thru (Annulus / Tubing)						% Carbon Dioxide				% Nitrogen Gas					
Annulus	S				_		, , , , , , , , , , , , , , , , , , , ,								
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size 2868															
Pressure	Buildup	); {	Shut in	4	-2 <sub>20</sub>	0/4at_	8:00	. (ÁM) (PM)	Taken	4.	-3 20/	14 <sub>'at</sub> 8	:00	(AM)(PM)	
Well on L	ine:	;	Started		20	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
	,—					=	OBSERVE	D SURFACI				Duration of Sh	ut-in 🖉	4 Hours	
Static / Dynamic Property	ilc Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential In Inches H <sub>2</sub> 0	Flowing Well Head Temperature Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure $(P_{\pi}) \propto (P_1) \text{ or } (P_a)$ psig psia				id Produced (Barrels)	
Shut-In	ıt-in .62		2					106.4		<del>                                     </del>		24			
Flow															
				_			FLOW STI	REAM ATTR	BUTES						
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Gircle one:  Meter or  Prover Pressure  psia		Press Extension		Gravity Factor F <sub>9</sub>		Temperature Fa		ation Metered Flow ctor R (Mcfd)		dOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
			<u>.</u>	<u> </u>		(OREN EL	ONO (DELL	/EDADILITY	CALCUI	ATIONS					
(P <sub>c</sub> ) <sup>2</sup> =		:	(P)2:	=	:	P <sub>d</sub> =		/ERABILITY) % (F	) GALCUL ) <sub>-</sub> - 14.4) +		· :		P <sub>a</sub> ) <sup>2</sup> = 0.2 P <sub>a</sub> ) <sup>2</sup> =	207	
$(P_c)^2 - (P_g)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2:  1. P <sub>2</sub> - P <sub>2</sub> 2. P <sub>2</sub> - P <sub>3</sub> divided by: P <sub>2</sub> - P <sub>2</sub>		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		O De Antilog Equal		pen Flow liverability s R x Antilog (Mcfd)	
				3.410	rgente "ty"	1 -7	<u> </u>	-		-	-			_	
							/	<u> </u>							
Open Flov	N	Mcfd @ 14.65 psia					a Deliverability			Mcfd @ 14.65 psla					
					ehalf of the o	, ,		-	thorized t	o make the day of L	he above repo	nt and that he	has knov	vledge of 20 <u>/ 4</u> .	
	_		Witness					-				Ompany //	RECE!	VED ION COMMISSI	
			For Com:	nissio	n			-			Chec	ked by			

Gudu-
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 Foster 2-7
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: 8-4-14  Signature: Janice Ripley  Title: Production 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.