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

Type Tes						. (	(See Instruc	tions on Rev	erse Side	)			
Open Flow Deliverability					Test Date: 5-22-13				API No. 15 <b>071-20805-00-00</b>				
Company		Оре	rating, l	nc.		<u> </u>	, <u> </u>	Lease Foster				3-7	Well Number
County Greele				ation				TWP 20S		RNG (E/	W)		Acres Attributed
Field Bradshaw						Reservoir Winfield				Gas Gathering Connection DCP Midstream			
Completi	Completion Date			· · · · · · · · · · · · · · · · · · ·			Plug Back Total Depth			Packer S			
Casing S		Weight 10.5			Internal Diameter 4.052		Set at 2890		Perforations 2805-2819		To 2864-2870		
	Tubing Size		Weight 4.7		Internal D 2.000		Diameter Set at 2871		t	Perforations		То	
	Type Completion (Describe)				Type Fluid Production Water					Plunger? Yes	/ No		
Producing Thru (Annulus / Tubing)					arbon Dioxi	de	e % Nitrogen		Gas Gravity - G <sub>g</sub>				
Vertical D	Depth(F	1)	<del></del>		<del> </del>		Pres	sure Taps	_,-			(Meter	Run) (Prover) Size
2960 Pressure	Builde	p: S	Shut in	5	-21 ,	013a1 /	10:35	(AM) (PM)	Taken	5-2	2 20	13 <sub>at</sub> _10.	35 (AM)(PM)
Well on L								$\smile$				at	_
							OBSERVE	D SURFACE	DATA	<del></del>	<del></del>	Duration of Shut	i-in <u>24</u> Hours
Static / Oynamic Property	Orifice Size (Inches)		Prover Pressu		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casi Wellhead F (P <sub>w</sub> ) or (P <sub>t</sub>	Pressure	Wellhes	ubing ad Pressure (P <sub>t</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	-			·				1 1	56.4	μaig	уза	24	
Flow												,	
			21				FLOW STR	EAM ATTRI	BUTES				<u> </u>
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia			Press Gra Extension Fac ✓ P <sub>m</sub> xh F		tor Temperature		Fac	Deviation Metered Flo Factor R F <sub>av</sub> (Mcfd)		GOR (Cubic Fo	eet/ Fluid Gravity
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup>	=	:	(OPEN FLO	, ,	ERABILITY) 6 (P	• 14.4) +		:	(P <sub>a</sub> (P <sub>d</sub>	) <sup>2</sup> = 0.207 ) <sup>2</sup> =
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> ;	)²-(P <sub>w</sub> )²	1 2	ise formula for 2: $P_c^2 - P_a^2$ $P_c^2 - P_d^2$ and by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:	P <sub>2</sub> - P <sub>w</sub> 2	Slop Ass	sure Curve e = "n" origned rd Slope	n x L	.og [ ]	Antilog	Open Flow Deliverability Equals R x Antitog (Mcfd)
					· · · · · · · · · · · · · · · · · · ·								
One - "'				L	Mary A cons	) )=:			Ifa			Maria & 44.05	<u> </u>
Open Flov		nned	authority i		Mcfd @ 14.6		tatas that he	Deliverabi	·	make th		Mcfd @ 14.65 ps	
		_	_		enair or the report is true				10	tay of	June	rt and that he h	20 <u>/3</u>
										ani	(0) K	inlan	
			Witness							או עים	<u> </u>		KCC WI

	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the fo correct to the b of equipment in	regoing pressure information and statements contained on this application form are true and est of my knowledge and belief based upon available production summaries and lease records stallation and/or upon type of completion or upon use being made of the gas well herein named.
	quest a one-year exemption from open flow testing for the <u>Foster 3-7</u> 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
-	ree to supply to the best of my ability any and all supporting documents deemed by Commissio ary to corroborate this claim for exemption from testing.
Date: 6-16	7-/3
	Signature: Janice Ripley

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.