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

Type Test:			(5	See Instructi	ions on Reve	rse Side	)				
Open Flow			_ Test_Date:				API N	io. 15			
Deliverabilt	ty	3-7-13				15-0	15-075-20668 <b>- 499</b>				
Company Horseshoe O	ompany orseshoe Operating, Inc.			Lease Dike			eman			Well Number	
County Hamilton	Location C NW/4		Section 15		TWP 22S		RNG (E/W) 40W			Acres Attributed	
Fleid Bradshaw			Reservoir					ering Connec		· · · · · · · · · · · · · · · · · · ·	
Completion Date			Plug Back Total Depth 2765 TD				Packer Se	at at			
Casing Size	Weight 10.5		Internal Diameter 4.052		Set at <b>2765</b>		Perforations 2727		то 2737		
ubing Size	Weight 4.7	Weight		Internal Diameter 2.000			Perforations		То		
2-3/8 4.7 Type Completion (Describe) Single-Gas				I Production	2734	<u>.</u>	Pump Unit or Traveling Pump Unit		Plunger? Yes / No		
	Annulus / Tubing)		- ,	arbon Dioxid	de		% Nitroge		Gas Gr	avity - G <sub>g</sub>	
Vertical Depth(H)	· · · · · · · · · · · · · · · · · · ·			Pross	sure Taps	·····			(Meter J	Run) (Prover) Size	
		2 /	12 (	1.2/	ange		2-	7	13 8	30 ·	
Pressure Buildup:			13 at 9	,	AM (PM)				3 at 4.	20 (AM) (PM)	
Well on Line:	Started	20	at		(AM) (PM) 1	aken		20 .	at	(AM) (PM)	
	1 2	Т_ Т		OBSERVE	D SURFACE		T	· ·	Duration of Shut-	in <u>24</u> Hours	
Dynamic Size	namic Size Mater Differential		Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In . 75	psig (Pm)	Inches H <sub>z</sub> 0			52	psia	psig	psia	24		
Flow				,							
				FLOW STR	EAM ATTRI	UTES					
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mctd	oeffiecient (F <sub>b</sub> ) (F <sub>b</sub> ) (Prover Pressure Extension		Gravity Factor F <sub>s</sub>		Flowing Temperature Factor F <sub>rt</sub>		Deviation Metered Flor Factor R Fpv (Mcfd)		GOR (Cubic Fe Barrel)	) Gravity l	
			<u> </u>			ļ					
P <sub>c</sub> ) <sup>2</sup> =	: (P <sub>w</sub> ) <sup>2</sup> =_	:	(OPEN FLO		ERABILITY) % (P	CALCUL - 14.4) +		· :	(P <sub>a</sub> ) (P <sub>d</sub> )	² = 0.207 ² =	
(0.)3 (0.)4	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>2</sub> <sup>2</sup> -P <sub>4</sub> <sup>2</sup> 2. P <sub>2</sub> <sup>2</sup> -P <sub>3</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Ass	s = "n" >r gned	nxL	og [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	di	vided by: P.2 - P.2	by:		Standa	a alope					
or	a i	vided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		<u></u>	Standa						
or $(P_c)^2 - (P_d)^2$	<i>d</i> s		by:	[ c					victd @ 14.85 ne	ia	
or (P <sub>c</sub> ) <sup>2</sup> -(P <sub>d</sub> ) <sup>2</sup>		Mcfd @ 14.6	by:		Deliverabil	ity	o make the		Mcfd @ 14.65 ps	· · · · · · · · · · · · · · · · · · ·	
$(P_o)^2 - (P_d)^2$ Open Flow The undersign	ned authority, on	Mcfd @ 14.6	by:  65 psia  Company, st	tates that he	Deliverabile is duly aut	ity	o make the		·	· · · · · · · · · · · · · · · · · · ·	
$(P_o)^2 - (P_d)^2$ Open Flow The undersign	ned authority, on	Mcfd @ 14.6 behalf of the d	by:  65 psia  Company, st	tates that he	Deliverabile is duly aut	ity horized t			t and that he ha	· · · · · · · · · · · · · · · · · · ·	

JUN 19 2013

exempt status under Rule K.A and that the foregoing press correct to the best of my know	of perjury under the laws of the state of Kansas that I am authorized to request A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. sure information and statements contained on this application form are true and wledge and belief based upon available production summaries and lease records for upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-ye	ear exemption from open flow testing for the Dikeman 1
gas well on the grounds that	said well:
is cycled of is a source is on vacual is not capa	ed methane producer on plunger lift due to water e of natural gas for injection into an oil reservoir undergoing ER turn at the present time; KCC approval Docket No able of producing at a daily rate in excess of 250 mcf/D to the best of my ability any and all supporting documents deemed by Commission
	prate this claim for exemption from testing.
Date: 6-12-13	Signature: Opice 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.