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

Type Test:			(Se	ee Instructi	ons on Reve	erse Side,	)			
Open Flow		,	,Test Date;	,,				No. 15	0000	
<u> </u>			<u> </u>	4			15-0	71-20067		· · ·
<sup>Company</sup> H <mark>orseshoe O</mark>	perating, In	с.			Lease Harris				A-1	Well Number
County Location Greeley C SW		Section 15		TWP 20S		RNG (E/W) 40W			Acres Attributed 640	
Field. Bradshaw			. Reservair Winfield				Gas Gathering Connection DCP Midstream			
Completion Date 11/74			Plug Back Total Depth 2841				Packer Set at None			
Casing Size	g Size Weight 9.5		Internal Diameter 4.052		Set at 2852		Perforations 2815		То 2822	
Tubing Size 2,375	g Size Weight '5 4.7		Internal Diameter 1.995		Set at 2839		Perforations		To	
Type Completion (Describe) Single Gas			Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Yes				
Producing Thru (A	Annulus / Tubin	ıg)	% Car	bon Dioxid	le		% Nitroge	n	Gas Gr	avity - G
<u>Annulus</u>							<u>-</u>			<u></u>
Vertical Depth(H) 2855			·		ure Taps				(Meter i	Run) (Prover) Size
Pressure Buildup:	Shut in	4-2 20	14 <sub>at</sub> _8	8,00	AMY (PM)	Taken	4-3	20/	4 at 81	20 (AM) (PM)
Well on Line:	Started	20	at		(AM) (PM) 1	Taken	_	20	at	(AM) <sub>,</sub> (PM)
,, ,	-		- (	DBSERVE	SURFACE	DATA		` <b></b>	Duration of Shut-	in <u>24</u> Hours
Static / Orifice	Meter Prover Press	Differential	Flowing Well Head		Casing Wellhead Pressure $(P_{\mathbf{w}}) \text{ or } (P_{\mathbf{c}}) \text{ or } (P_{\mathbf{c}})$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
Property (Inches) psig (Pm)			t	*	pslg	psig psia p		psig psia		(Saliolo)
Shut-In .500	<u> </u>		<u> </u>			53.2	-		24	
·				LOW STRI	EAM ATTRIE		<u> </u>	<u> </u>		1
Plate	Círcie one:	Press	1		Flowing	Ţ			GOR	Flowing
Coefficient Meter or Extension  (F <sub>b</sub> ) (F <sub>p</sub> ) Prover Pressure  Motd psia		Extension	Gravity Factor F <sub>0</sub>		Proving Deviation emperature Factor Factor F <sub>pv</sub>		ctor	or R		Fluid Gravity G
										-
			OPEN FLOV	V) (DELIVE	RABILITY)	CALÇUL	ATIONS	*	(P.)	<sup>2</sup> = 0.207
P <sub>c</sub> ) <sup>2</sup> =	: (P <sub>w</sub> ) <sup>2</sup> =	::	P.=_	%	(P <sub>c</sub>	- 14.4) +	14.4 =	<b>:</b>	(P <sub>d</sub> )	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P,2-P,2	Slope Assi	— sure Curve > ≈ "n" or gned	nxL	og	Antilog	Open Flow Deliverability Equals R x Antilog
<del></del>		divided by: Pc2 - Pw2	by:		Standa	rd Slope			<del></del>	(Mcfd)
					-					
pen Flow Mcfd @ 14.65 psia			-	Deliverability				Mcfd @ 14.65 psia		
The undersign	ned authority, o	on behalf of the C	Company, sta	tes that he	is duly aut	horized to	o make the	e above repor	rt and that he ha	as knowledge of
e facts stated the	rein, and that s	aid report is true a	and correct.	Executed t	this the	4	day of <i>(</i>	Maj	<u>ust</u>	, 20 <u>/4</u> .
	Witness (	(if any)			·. —		ani	WKN For	plly ompany KANYSAS	RECEIVED CORPORATION COM!
	F	mtaalan						Ois	V kad by	<del>A11은 이 6 전략</del>
	For Comm	nission						Chec	ked by	AUG 0 6 2014

	status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and tha	t the foregoing pressure information and statements contained on this application form are true and
	to the best of my knowledge and belief based upon available production summaries and lease records
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
	reby request a one-year exemption from open flow testing for the Harris A-1
gas wel	I 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
	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing.
Date:	8-4-14
ŧ	Signature: <u>Agrice Ripley</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.