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

Type Test	t:			-	(See Instruct	tions on Reve	erse Side	)					
Op	en Flow			Toet Date	o			ΔDI	No. 15				
De	liverabilty	•		4-3-	74				-20145 <b>-90</b>	100		ē	
Company Horseshoe Operating, Inc.			<b>7</b>	Lease Henry						Well Number 1			
County Location Hamilton SW/4			Section 15		TWP 23S	i	RNG (E/ 40W	Acres Attributed					
Field Bradshaw				Reservoir Winfield			Gas Gathering Connection DCP Midstream						
Completion Date 4-9-76			Plug Bac 2562'	Plug Back Total Depth 2562			Packer S	Set at			<del> </del>		
Casing S 4.5	asing Size Weight 5 10.5			Internal Diameter 4.052		Set at <b>2570'</b>		Perforations 2486'		то <b>24</b> 96'			
Tubing Si 2-3/8	ubing Size Weig		ht	t Internal Di 2.000		iameter Set at 2508'		Perforations		То			
7-010 4.7 Type Completion (Describe) Single - Gas				Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod						
	Thru (A	nnulus / Tubir	ng)		Carbon Dioxi	de		% Nitrog		Gas	Gravity -	G <sub>g</sub>	
Vertical D					Press	sure Taps	-			(Mete	r Run) (F	rover) Size	
			1/ 0	<del></del>	Flan	ge		<del></del>		3"		•	
Pressure	Buildup:	Shut in	4-2:	20 <i>4</i> at _	8,00	(PM) 1	īaken	4-	3 20.	14 at8	(		
Well on L	ine:	Started	2	20 at		(AM) (PM) 1	aken		20	at		(AM) (PM)	
	1	•		· · · · · ·	OBSERVE	D SURFACE	DATA			Duration of Shi	ut-in_ <i>@</i>	74 Hours	
Static / Dynamic	Orifice Size	Circle one: Meter	Differential	Flowing Temperature	Well Head Temperature	Wallhard Proceira		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Duration		Liquid Produced (Barrels)	
Property	(inches)	Prover Press psig (Pm)	I	t	t					(Hours)			
Shut-In	.625	5				· /	73.5			24			
Flow	_				<u> </u>					<u> </u>			
					FLOW STR	EAM ATTRIE	BUTES						
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient p) F	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Extension Fact		Flowing Temperature Factor Fit	Deviatio Factor F <sub>pv</sub>		Metered Flov R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
							'.					-	
		<u> </u>		(OPEN FL	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS	•	(P	$(a_a)^2 = 0.2$	207	
(P <sub>c</sub> ) <sup>2</sup> =	<del></del> :	(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> =	9	% <u>(Р</u>	- 14.4) +	14.4 =	<del>:</del> _		g) <sub>5</sub> =		
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>d</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 <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Cur Slope = "n" or Assigned Standard Slope		nxl	.og [ ]	Antilog	De Equal	Open Flow Deliverability Equals R x Antilog (Mcfd)	
_	+		divided by: P.2 - P.	- J	<u>-</u>	, orangai						•	
											<u> </u>		
Open Flow Mcfd @ 14.65 psia					Deliverabili	Deliverability Mcfd @ 14.65 psia							
			on behalf of the			· /	4	make the	//	rt and that he	has know	vledge of	
		Witness	(if any)		<del></del>			ane	CUKE	PULLY AMPANANSAS CO	RECEIV RPORATIO	ED ON COMMISSI	
		For Comm	nission						Chec	ked by	UG n e	2017	
										A	LACT 11 P	1 /1114	

	F(0). eclare 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 tha	at 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
	oment installation and/or upon type of completion or upon use being made of the gas well herein named.  Pereby request a one-year exemption from open flow testing for the Henry #1
	Il 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
l fui	rther 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: <u>Janice Ripley</u>
	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.