KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Туре Те	st:						(See Ins	truction	s on Re	everse Sid	le)	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Open Flow					Test Date:					API No. 15						
	eliver	abilty			_	3-7-	12						7-00-00	>		
Company Horseshoe Operating, Inc.					Lease Buck						2-3	Well	Number			
County Location Hamilton W/2 SE					Section 3			WP 23S		RNG (E	Z/W)		Acre	s Attributed		
Field Bradsi	haw			-		Reservo	oir					thering Conr Midstrea				
Complet 4-27-2		ate				Plug Ba 2628	ck Total (Depth			Packer					
Casing 8	Size		Weight 10.5			Internal Diameter 4.052			Set at 2628		Perforations 2601		то 2609			
Tubing S 2-3/8	Size		Wei 4.7	ght	,	Internal 2.000	Diameter		Set :		Perfe	orations	То			
Type Completion (Describe) Single-Gas				-	Type Fluid Production Water					Pump U Pump	nit or Traveling Unit	Plunger? Yes	5 / No)		
Producing Thru (Annulus / Tubing)						% Carbon Dioxide					% Nitros		Gas Gravity - G			
Vertical [Depth	(H)	•				P	ressure	Taps				(Mete	'Run)	(Prover) Size	
Pressure	Build	lup:	Shut in	3	-6 2	d2 at /	0:45	5 (AN	(PM)	Taken	3-	7 20	12 at 10;	75	(AM) (PM)	
Well on L	ine:		Started		2	0 at		(AN) (PM)	Taken	 -	20	at		_ (AM) (PM)	
,— <u> </u>							OBSEF	WED S	URFACI	E DATA			Duration of Shu	t∙in e	24 Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Mater Prover Pressure		Pressure Differential	Temperature Temperatu		V	I Wallhand Draceura		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	.500		psig (Pm)		Inches H ₂ 0	t	psig 81		osig	psia	psig	psia			(54,103)	
Flow		<i>70</i>		-			 -		[./		 		24			
			1		<u> </u>		EL OW S	TREAM	ATTR	ППППППППППППППППППППППППППППППППППППППП	<u> </u>					
Plate			Circle one:	T	Press	Gravity Flowing								Flowing		
Coeffiecient (F _b) (F _p) Mcfd		Pro	Metar or Prover Pressure psia		Extension Fact		or Temperatu		rature tor	Deviation Factor F _p		Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eeV	Fluid Gravity G _m	
(P _c)² ≈			(5.12			(OPEN FLO	OW) (DEL	IVERA	•				(P <u>.</u>)² = 0	.207	
<u>(, , , , , , , , , , , , , , , , , , , </u>		=:_	(P _w)²:		se formula 1 or 2;	P _a =		_%		<u>- 14.4) +</u>	14.4 =	 :	(P _d) ² =		
(P _a) ² - (P _a) ² or (P _a) ² - (P _d) ²		(P _c) ² - (P _u) ²		1. P _c ² -P _s ² 2. P _c ² -P _d ² dividual by: P _c ² -P _s ²		LOG of formuta 1, or 2, and divide by:	p ₂ -p ₂		Backpressure Curve Slope = "n"		n x LOG		Antilog	Equa	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.6			65 psia Deliverabili			lite			cfd @ 14.65 ppin							
The ur	dersi	gned	authority o				aton the			<u> </u>			Acfd @ 14.65 ps			
					port is true					1/2	lay of	above repor	and that he ha	es kno	wledge of	
*			Witness (f any)		<u></u> .	RECE	IVE)	<u></u>	anic	e Ky	eley	······································		
			For Corner	ission			APR 1	8 20	12 —			Chack	adhy (

KCC WICHITA

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			I
		er the laws of the state of the behalf of the operator Ho	Kansas that I am authorized to request orseshoe Operating, Inc.
and that the forego correct to the best of equipment instal	oing pressure information of my knowledge and beli lation and/or upon type of	n and statements containe ief based upon available p f completion or upon use be	ed on this application form are true and roduction summaries and lease records eing made of the gas well herein named.
	st a one-year exemption for a state of the s	rom open flow testing for th	he Buck 2-3
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	is a coalbed methane pro is cycled on plunger lift d is a source of natural gas is on vacuum at the prese is not capable of producir to supply to the best of m to corroborate this claim	lue to water for injection into an oil resent time; KCC approval Doing at a daily rate in excess	cket Nos of 250 mcf/D orting documents deemed by Commission
	Sig	gnature: <u>Januc</u> Title: <u>Production Ass</u>	e Ripley istant

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.