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

Type Tes	t:					(	(See Instru	ictions on Re	everse Sid	le)				
Open Flow Deliverabilty							API No. 15 075-20098 - 🗢							
Company Horseshoe Operating, Inc.								Lease Well Number Dotts 1						umber
County Location Hamilton C SW/4								TWP 23S				Acres Attributed		
Field Bradshaw						Reservoi Chase			Gas Ga DCP 1		•			
Completion Date 12-18-75						Plug Bac 2585'	k Total De	pth		Packer	Set at			
Casing Size We 4-1/2"				ht		Internal I	Internal Diameter		Set at <b>2585'</b>		rations 8'	то 2510'		
Tubing Size We 2-3/8° 4.7				ht		Internal t 1.995	Internal Diameter 1.995		Set at <b>2529</b> '		rations	То		
Type Completion (Describe) Single - Gas				Type Fluid Produc Water				on Pump Unit or Trav Pump unit - F				g Plunger? Yes	/ No	
Producing Annulus		(Anr	ulus / Tubir	ng)		% C	Carbon Dio	xide		% Nitros	jen	Gas G	ravity -	G <sub>9</sub>
Vertical E		l)			<u>-</u> .			essure Taps nge			<del>L</del>	(Meter	Run) (F	Prover) Size
Pressure	Buildu	p: {	Shut in	3	3-6 2	0/3 <sub>at</sub>		_ (AM) (PM)	Taken	3	-720	13 <sub>at</sub> //:	00	(AM) (PM)
Well on L	ine:	:	Started		20	) at	· · · = - · · · · · · · · · · · · · · ·	_ (AM) (PM)	Taken_		20	at		(AM) (PM)
							OBSERV	ED SURFAC	E DATA	· · · · · · · · · · · · · · · · · · ·		Duration of Shul	-in_e	14 Hours
Static / Orli Dynamic Si: Property (incl		Meter Prover Pressu			Pressure Differential in tnches H,0 Flowing Temperature		Well Head Temperatur t	Wellhead	Casing elihead Pressure _) or (P <sub>1</sub> ) or (P <sub>2</sub> ) sig psia		Tubing ead Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )			id Produced Barrels)
Shut-In	.50	00						80	psia	psig	paia	24		
Flow							<u> </u>	<u></u>	<u> </u>	<u> </u>			<u> </u>	
<del></del>			<del></del>	1		<del> </del>	FLOW ST	REAM ATTE	RIBUTES					, , , , , , , , , , , , , , , , , , ,
Ptate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia			Press Gre Extension Fa ✓ P <sub>m</sub> x h		tor Temperati		F	viation actor F <sub>p+</sub>	Metered Flor R (Mcfd)	(Cubic F	GOR (Cubic Feet/ Barrel)	
		· ,		.L_	·	(OPEN FLO	OW) (DELI	VERABILITY	) CALCUI	LATIONS	,	(P	) <sup>2</sup> = 0.2	207
(P <sub>c</sub> ) <sup>2</sup> =		<u>:</u>	(P <sub>w</sub> ) <sup>2</sup> =	_	<del>:</del>	Pd=	<del></del>	_% (!	P <sub>o</sub> - 14.4) -	14.4 = _	<u>-</u> :	(P <sub>d</sub>		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> )²- (P <sub>w</sub> )²		Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> · P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> · P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> · P <sub>s</sub> <sup>2</sup>		LOG of formula 1. or 2. and divide by:	P <sub>2</sub> -P <sub>2</sub>	Backpressure Cur Slope = "n"		e nx	og [	Antilog	Open Flow Deliverability Equats R x Antilog (Mcfd)	
	-													
Open Flow			<u>l</u>		Mcfd @ 14.6	S5 psia	•	Deliverat		<u> </u>		Mcfd @ 14.65 ps	ia	
		ned	authority, o			***	tates that			to make th		ort and that he ha		ledge of
			-		eport is true			•	12	day of	Juny			20/3
<del></del>			Witness (	if any	)			-		ani	The special sp	Ampany K	<del>CC V</del>	VICHITA
<del></del>		<del></del>	For Comm	nissio	1	······································	<del></del>	-		<del></del>	Che	cked by	UN 1	9 2013

I declare 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 that 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 of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the
(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  I further 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: 6-12-13
Signature:

## 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.