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

Type Test:					(See Instruc	tions on Re	verse Side	e) .				
Оре	en Flow			Test Dat	o:			۸۵	l No. 15			
Deli	iverabilty			9-11-1	2				5-20737-00-	00		
Company Horsesho		ating, Inc.				Lease Lewis				2	Well Number	
County Location Hamilton SE			Section 7		TWP 22S		RNG (E/W) 41W			Acres Attributed 160		
Field Bradshaw			Reservoi Winfield			Gas Gathering Connecti Oneok			eclion			
Completion Date 10-22-2000			Plug Bac 2783 T	k Total Dep D	th			Packer Set at None				
Casing Size Weight 4.5 10.5				Internat 4.052	Diameter	Set at <b>2794</b>		Perforations 2717		To 2755		
Tubing Size Weight 2.375 4.7			Internal I 1.995	Diameter	Set at <b>269</b> 5		Perforations		То			
Type Comp Single - 0		escribe)		Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod			
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide			% Nitrogen			Gas Gravity - G <sub>g</sub>		
Vertical De	epth(H)				Pres Flan	sure Taps				(Meter	Run) (Prover) Size	
Pressure B	Buildup:	Shut in9	10 2	0/2 at 9		-	Taken	9-	//	12 at 10:0	70 (AM) (PM)	
Well on Lin	ne:	Started				$\overline{}$				at	_	
					OBSERVE	D SURFACI	E DATA			Duration of Shut-	in 24 Hours	
Static / Dynamic Property	Orifice Size (inches)	Gircle one:  Meter Prover Pressure psig (Pm)		Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P <sub>*</sub> ) or (P	Pressure	Wellhe	ubing ad Pressure (P <sub>i</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	.150	psig (Fili)	Inches H <sub>2</sub> 0			psig	95ia 45	psig	psia	24	<u> </u>	
Flow	•.											
		<u> </u>	<u> </u>	·	FLOW STR	EAM ATTR	BUTES	L		<del></del>	1	
Plate Coeffiecier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Gircle one: Meter or over Pressure psia	Press Extension Pmxh	Grav Fact	tor T	Flowing emperature Factor F <sub>ft</sub>	Fac	ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G_m	
(P <sub>c</sub> ) <sup>2</sup> =	<del></del> ;	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO	OW) (DELIVI		CALCULA c - 14.4) +		;	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	= 0.207	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> )	) <sup>2</sup> (F	P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	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> ded by: P <sub>c</sub> <sup>2</sup> • P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slop	sure Curve e = "n" origned ard Slope	nxL	og 📗	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow			Mcfd @ 14.6	ร้ วักรเล	•	Deliverabi	lity			Mcfd @ 14.65 psia		
The un	dersigne	authority, on b			tates that he		<u></u>	make the		t and that he has		
		n, and that said					0	lay of	Octobe	N	, 20 /2	
		Witness (if an					Q	inicl	Rij	eley	RECEIVED	
		For Commissi				_	0		Fq Co	mpany (/	OCT 1 1 2012	
										K	RECEIVED OCT 1 1 2012 CC WICHITA	

	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the forego correct to the best of of equipment install	ing pressure information and statements contained on this application form are true and f my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named.
gas well on the grou	t a one-year exemption from open flow testing for the Lewis 2  Inds that said well:
i i i i i i i i i i i i i i i i i i i	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D s supply to the best of my ability any and all supporting documents deemed by Commission of corroborate this claim for exemption from testing.
Date: 10-0-7-0	Signature: <u>Janice Ripley</u> Title: <u>Production Assistant</u>

## 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.