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

Type Test:					(See Instruc	tions on R	everse Side	9)					
Ope	n Flow												
Defi	iverabilty		7	Test Dat	p: / / /				16. 15 20073-00-(	าก			
Company			<i></i> -//	cose /	_/_/	Lease			20070-00-	<del></del>	Well No		
Horsesho	oe Opera	ating, Inc.	•	·		House	holder			1	AAGII 141	nuncei	
County		Loca	ition	Section		TWP		RNG (E/V	V)	· · · · · · · · · · · · · · · · · · ·	Acres	Attributed	
Greeley C NE				28 20\$			40W						
Field Bradshaw			Chase				Gas Gathering Connection DCP Midstream						
Completion 12-9-1974				Plug Bac 2835'	k Total Dep	th		Packer Se	t at				
Casing Siz	Casing Size Weight 4.5 11.6		Internal Diameter 4.000		Set at		Perforations 2806' - 2813'		То	***********			
Tubing Siz	bing Size Weight		ht	Internal Diameter 2.000		Set at 2816'		Perforations		То	<del></del>		
Type Comp	pletion (C				id Production			Pump Unit	or Traveling	Plunger? Vec	/ No	<del></del>	
Single -	Gas			Water		•		No	, or maveling	* Idangor: 103	, 140	•	
_	Thru (Ar	nulus / Tubli	ng)	% (	Carbon Dioxi	ide		% Nitroge	n	Gas G	ravity - (	a <sub>s</sub>	
Tubing Vertical De	nth/H)			·	Proc	sure Taps	<del></del>		<del></del>	///	<b>5</b>		
vortical De	skuitu)				Flan					(Meter	Run) (P	rover) Size	
Pressure B	Dilldus:	Shut in	7/25 20	//	2.55		Tokas	7/21	,	11 at 2:5	5		
			/	•				,				(AM)(PM)	
Well on Lin	16:	Started	20	at		(AM) (PM)	Taken		20	at		(AM) (PM)	
-					OBSERVE	D SURFAC	E DATA			Duration of Shut	in 2	4 Hours	
Static /	Orifice	Gircle one:	1	Flowing	Well Head		sing		olng		T		
Dynamic Property	Size (inches)	Meter Prover Press	Differential .		,	Weithead Pressure $(P_u) \propto (P_i) \propto (P_a)$		Wellhead Pressure (P <sub>2</sub> ) ∝ (P <sub>1</sub> ) ∞ (P <sub>6</sub> ) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Floperty	(inches) psig (Pi		Inches H <sub>2</sub> 0	t	t	psig	psla			·	`		
Shut-In	.500					}	68.2	ļ	71	24			
Flow											1	·	
L	• • • • • • • • • • • • • • • • • • • •	<u>. h</u>	t	· · · · · · · · · · · · · · · · ·	FLOW STR	EAM ATT	RIBUTES	<u> </u>	I	<u></u>			
Plate		Circle one:	Press	Т.		Flowing	<u> </u>	T				Floridae	
Coeffiecte		Meter or	Extension	Grav Fac		Temperature		riation Metered Flow actor R F <sub>pv</sub> (Mcfd)		GOR (Cubic F		Flowing Fluid	
(F <sub>b</sub> ) (F <sub>p</sub> ) Mofd	)   "	over Pressure psia	√ P <sub>m</sub> xh	F,		Factor F <sub>rt</sub>				Barret		Gravity G <sub>m</sub>	
	-		<del>                                     </del>					-	<u> </u>	<del></del>			
L			<u> </u>	<del></del>		<u> </u>	<u> </u>		<del>_</del>			<u> </u>	
				(OPEN FL	OW) (DELIV		-				) <sup>2</sup> = 0.2		
(P <sub>e</sub> ) <sup>2</sup> =	<del>:</del>	(P <sub>w</sub> ) <sup>2</sup> :	Choose formula 1 or 2:	P <sub>a</sub> =		% (I	P <sub>e</sub> - 14.4) +	14.4 =	<del></del> :	(P <sub>d</sub>	)2 =		
(P <sub>a</sub> )² - (P <sub>a</sub>	)* (	Pa)*- (P <sub>w</sub> )*	1. P.*-P.*	LOG of	ГЪ	Backpressure Curve Slope = "n"			ַן וְן			en Flow	
or (P <sub>a</sub> ) <sup>a</sup> - (P <sub>a</sub>			2 P2 P2	formula 1. or 2.		Assigned		n x LC	<sup>6</sup>	Antilog		R x Antilog	
\' o' \' a	<u>'</u>		dMded by: P 2 - P 2	and divide by:	P, 2 . P, 2		tard Slope					(Mcfd)	
					•								
	<del></del>					·-		<del></del>			┼──		
<u> </u>		l		<u> </u>		<u> </u>	<del>.</del>	<u> </u>		<del></del>	<u> </u>		
Open Flow	1		Mcfd @ 14.6	5 psia		Deliverat	oility			Mcfd @ 14.65 ps	ia		
The un	ndersigne	d authority, c	on behalf of the C	company, s	tates that h	e is duly a	uthorized to	make the	above repor	t and that he ha	as knowi	ledge of	
the facts sta	ited there	in, and that s	aid report is true	and correct	t. Executed	this the	<u>3</u> .	day of	wau	st		20 //	
							(	anic	of Re	plan	REC	EIVED	
		Witness	(il any)		• •	•	0	The state of the s	For	ompany		1 1 2011	
•		For Com	nission		<del></del>	-		10	Chec	ced by	····	VICHITA	
	100									• • • • • • • • • • • • • • • • • • • •	JU V	ィルコココス	

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	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the fore correct to the bes of equipment inst I hereby requ	going pressure information and statements contained on this application form are true and it of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Householder 1 rounds that said well:
	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>8/3/</u>	Signature: Janice Ripley  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.