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

Type Test:						(See Instruc	tions on R	everse Sid	9)				
Open FI	ow				Tool Det	·			4.50				
Deliverabilty					Test Date: 9-9-//				API No. 15 075-20746-00-00				
Company Horseshoe C	pera	iting, Inc.			· · · · · · · · · · · · · · · · · · ·	<u> </u>	Lease Cletus	- · · · · · · · · · · · · · · · · · · ·		·	1	Well N	umber
County	County Location			Section	Section TWP			RNG (E	W)	Acres Attributed			
	Hamilton SW/SE			30		21S	21S		<del></del>	<u> </u>			
Field Bradshaw				Reservoi Winfield	1			Gas Gathering Connection		ction			
Completion Date 7-31-2001				Plug 8ad 2816	ck Total Dep	th	Packer Set at None		Set at				
Casing Size Weight 4.5 10.5				Internal 4.052	Diameter	Set at 2818		Perforations 2768		то 2780			
Tubing Size	Tubing Size Weight				Internal	Diameter	Set at		Perforations				
2.375	οn /Ω	4.7		<del></del>	2.000		281	6		<u> </u>			
Single - Gas Wat				Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod ·					
Producing Thru Annulus	ı (An	nulus / Tubi	ng)		% (	Carbon Dioxi	de		% Nitrog	en	Gas G	ravity -	G,
Vertical Depth(	H)						sure Taps		·			Run) (P	rover) Size
				7-8		Flan			0	0	2"	20	
Pressure Buildu	-	Shut in					_				// at 10.	•	(AM) (PM)
Well on Line:		Started		2	0 at		(AM) (PM)	Taken		20 .	at	(	(AM) (PM)
<del></del>						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in	24 Hours
Static / Orif		Circle one Møter	- 1	Pressure Differential	Flowing	Well Head	E .	sing Pressure		ubling ad Pressure	Duration	Liqui	d Drawn
Property (inch		Prover Presi psig (Pm		in Inches H <sub>2</sub> 0	Temperature t	Temperature t	l .	P <sub>i</sub> ) or (P <sub>a</sub> )		aa.		Barrels)	
Shut-In . 6	25							38			24		
Flow				i					•			-	
			,			FLOW STR	EAM ATTR	IBUTES			<del></del>	1	
Plate Coefflecient		Circle one: Meter or		Press	Grav	rity _	Flowing	Devi	ation	Metered Flow	GOR		Flowing
(F <sub>b</sub> ) (F <sub>p</sub> )	Pro	ver Pressure		Extension Pxh	Fact	or	emperature Factor	Fac		R	(Cubic Fe		Fluid Gravity
Mcfd		psia	_	- m^11	`		F <sub>ft</sub>	F,	) v	(Mcfd)	Barrel)		G <sub>m</sub>
					_t	<u>J</u> _							
/D \2						OW) (DELIVE					(P_)	2 = 0.20	07
(P <sub>c</sub> ) <sup>2</sup> =	=:_	(P <sub>₩</sub> )²:		e formula 1 or 2:	P <sub>d</sub> =		T	° - 14.4) +	14.4 =	<del>:</del>	(P <sub>d</sub> ) <sup>2</sup>	=	==
(P <sub>e</sub> ) <sup>2</sup> - (P <sub>e</sub> ) <sup>2</sup>	(P	<sub>c</sub> )² - (P <sub>w</sub> )²		P2-P2	LOG of formula		Sloj	ssure Curve pe = "n"	n x Lo	, [ ] ]			en Flow
(P <sub>e</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>				P <sub>a</sub> 2 - P <sub>a</sub> 2	1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	As	or signed	" ^ [		Antilog	Equals	P x Antilog
			divided	1 by: P <sub>2</sub> <sup>2</sup> - P <sub>2</sub> <sup>2</sup>	by:	<u></u>	Stand	ard Slope			<del></del> -	(	Mcfd)
				<u> </u>	<del> </del>			<u> </u>	-		-		
Open Flow				lcfd @ 14.6	  5 psia		Deliverab	ility			cfd @ 14.65 psi		
The undersi	igned	authority, o			-	tates that he			make the		and that he has		
he facts stated th								10	ay of _	ctobe			o <u>//</u>
	_				<u>.                                    </u>			O	enic	e Rip	ley RI	ECEI	VED
	·	Witness (		<del></del>	43 <del>-</del> 7					Follow	טט טכ	T 2 1	2011
•		, or contin	· ioetyf		,					Checke	d by		HITA

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	der penalty of perjury under the laws of the state of Kansas that I am authorized to request							
	nder Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.							
	egoing pressure information and statements contained on this application form are true and							
	st of my knowledge and belief based upon available production summaries and lease records							
	tallation and/or upon type of completion or upon use being made of the gas well herein named.							
	uest a one-year exemption from open flow testing for theCletus 1							
gas well on the g	rounds that said well:							
/Chan								
(Chec	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							
( <u> </u>								
	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 agre	e to supply to the best of my ability any and all supporting documents deemed by Commissio							
	y to corroborate this claim for exemption from testing.							
Date: 10-/8	'-//							
	·							
	$\sim 0.0$							
	Signature: Janice Ripley							
	Title: Production Assistant							
	Tale. Froducijog Assistant							
	IIIIe: 1100000017100100111							

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.