KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruct	ions on Re	verse Şide)				
of	oen Flo	W			Test Date				ADI	No. 15			
De	llverab	ilty			1-20-1	7		19		1-20378 - Ö	30O		
Company Horseshoe Operating, Inc.						Lease Kuttler F			· ·		1	Well Number	
County Location Greeley C SW SE NW				Section 19	,	TWP 19\$					Acres Attributed		
					Reservoir Winfield				thering Conne idstream				
Completion Date 1-3-86				Plug Bac 2914'	Plug Back Total Depth 2914'			Packer §	Set at				
Casing Size 5-1/2"			Weigi 14.0	nt	Internal Diameter 5.012		Set at		Perforations 2836'		To 2844'		
Tubing Size 2-3/8"			Weigi 4.7	nt	Internal Diameter 1.995		Set at 2846'		Perforations		То		
					Type Fluid Production			Pump U	/ No				
Producing Thru (Annulus / Tubing)					% C	% Carbon Dioxide			% Nitrog	jen	Gas Gr	Gas Gravity - G	
Vertical D	Pepth(F	l)				Press	surė Taps			<u> </u>	(Meter	Run) (Prover) Size	
Pressure	Buildu	p: :	 Shut in	1-19	0 // at_6	8:00	(AM) (PM)	Taken	1-2	O 20	11_at_8:0	O ((AM) (PM)	
Well on L	.lne:	;	Started	20) at		(AM) (PM)	Taken			at		
	<u> </u>					OBSERVE	D SURFACI	E DATA			Duration of Shut-	in <u>24</u> Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H.0	Flowing Well Hea Temperature Temperatu		e Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	Shut-In .50		pag (t tri)	Thomas 11 ₂ 0			psig	69		psia	24		
Flow						_							
·						FLOW STR	EAM ATTR	BUTES					
Plate Coefflecient (F _b) (F _p) Mcfd		Gircle one: Mater or Prover Pressure psia		Press Extension Pxh	Gravity Factor F		Flowing Temperature Factor F, f,		ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Grovity l	
<u> </u>					40000				.=				
(P _c) ² =		_:	(P _w) ² =	<u> </u>	P _d =	OW) (DELIV!) CALCUL (- 14.4) +		:	(P _•) (P _d)	²= 0.207 ²=	
(P _a) ² - (P _a) ² or (P _a) ² - (P _d) ²		(P _a) ² - (P _a) ²		Choose formula 1 or 2: 1. Pd - Pd 2. Pd - Pd divided by: Pd - Pd	LOG of formula 1. or 2. and divide p2.p		Backpressure Curve Slope = "n"		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
						<u> </u>							
'].				<u> </u>				_l				
Open Flov	N .			Mcfd @ 14.6	55 psia	 -	Deliverabl	llity		<u> </u>	Mcfd @ 14.65 psi	ia	
				n behalf of the call and report is true				a	make that	ne above repor	rt and that he ha	, 20	
			Witness (I	f any)			_)ani	ce R	ipley	RECEIVED	
			For Corner		70.2.4				<u> </u>	- OL	Continue C	MAY 1 2 2011	

KCC WICHITA

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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 Kuttler F #1
gas well on the grounds that said well:
(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:
Signature: <u>Janue Ripley</u> Title: <u>Production Assistant</u>
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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.