KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	at:				ĺ	(See Instru	ctions on Rev	rerse Side))				
Open Flow					Test Date:				ΔPI	No. 15			
Deliverabilty				1-24-13				071-20378 -0000					
Company Horseshoe Operating, Inc.						Lease Kuttler F					1	Well Number	
County Location Greeley C SW SE NW			Section 19		TWP 19S		RNG (E/W) 39W		Acres Attributed				
Field Bradshaw					Reservoi Winfield					hering Conn idstream			
Completion Date 1-3-86					Plug Bac 2914'	Plug Back Total Depth 2914'			Packer S	Set at			
Casing S 5-1/2"	Casing Size 5-1/2"				Internal Diameter 5.012		Set at 2958'		Perforations 2836'		то 2844'		
Tubing S 2-3/8"	ubing Size Weight -3/8" 4.7				Internal I 1.995	Diameter	Set at 2846'		Perforations		То		
Type Completion (Describe) Single - Gas				Type Flui Water	Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No					
Producing Thru (Annulus / Tubing)				% (% Carbon Dioxide			% Nitrog	en	Gas Gr	Gas Gravity - G		
Vertical Depth(H)						Pressure Taps					(Meter I	Run) (Prover) Size	
Pressure	Buildu	p: Shutin	/	-23 2	0/3 _{at} _	8:00	(AM) (PM)	Taken	1-0	34 20	13 at 8:0	00 (AM) (PM)	
Well on L	.ine;										at	_	
						OBSERV	ED SURFACE	DATA			Duration of Shut-	in_24Hours	
Static / Dynamic Property	Orific Size	Meter	ssure	Pressure Differential in Inches H ₂ 0	Flowing Well Heat Temperature t		e (P _w) or (P _t) or (P _s)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	.5		""	inches H ₂ O			psig	67	psig	psia	24		
Flow													
				*** *	1	FLOW ST	REAM ATTRI	BUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact √ P _m x h F _g		tor Temperature		Fa	Deviation , Market F _{pv}		v GOR (Cubic Fe Barrel)	Gravity	
	<u> </u>	·	l		(OPEN FLO	OW) (DELI	VERABILITY)	CALCUL	ATIONS		(P.)	²= 0.207	
(P _c) ² =		_: (P _w)	² =	<u>:</u>	P _d =		% (P	<u>- 14.4)</u> +	14.4 =	<u> </u>	(P _a)		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² ⋅ (P _w) ²		ose formula 1 or 2: 1. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_d^2$ and divide by: led by: $P_c^2 - P_w^2$ by:		oi		e = "n" or igned	nxl	.og []	Antitog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	<u>_</u>		1	Mcfd @ 14.6	35 nsia	•	Deliverabi	litv			Mcfd @ 14.65 psi	ia .	
				· * ···	•								
		gned autnority, erein, and that			and correct	t. Executed	d this the	3_	day of	e appre repo Upri V Ry	rt and that he ha l cleur	, 20 <u></u> , 20 <u></u> .	
		Witnes	s (if any)		APR 1	1 2013			For	company /	· · · · · · · · · · · · · · · ·	
		For Co	nmissio	n	Co	ONSERVATION WICHIT	ON DIVISION A, KS			Chec	ked by		

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: 4-3-/3
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.