KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				((See Instruc	tions on Rev	erse Side))				
Op	oen Flo	w			Test Date	•			4 D	I A) - 40°			
De	liverat	oilty			1-20-1					l No. 15 1 -20378<i>CO</i>C)1		
Company		pera	ting, Inc.			Lease Kuttler F					1	Well Number	
County Location Greeley C SW SE									RNG (E/W) 39W		Acres Attributed		
Field Bradshaw					Reservoir Winfield				thering Connection	ction			
Completion Date 1-3-86				Plug Bac 2914'	Plug Back Total Depth 2914'			Packer S	Set at				
Casing Size 5-1/2"			Weight 14.0		Internal Diameter 5.012		Set at 2958'		Perforations 2836'		To 2844'		
Tubing Size 2-3/8"			Weight 4.7		Internal Diameter		Set at		Perforations		То	То	
Type Con	npletio	n (D		7-7-1	1.995 Type Flui	d Production	2846		Pump Ui	nit or Traveling I	Plunger? Yes	/ No	
Single -	- Gas		, 		Water						•		
Producing	g Thru	(An	nulus / Tubing)	% (% Carbon Dioxide			% Nitrog	jen	Gas Gi	Gas Gravity - G	
Vertical C	Depth(I	1)				Pres	sure Taps				(Meter	Run) (Prover) S	
Pressure	Buildu	ıp:	Shut in	1-19_:	20/2 at_	8.00	(PM)	Taken	1-2	20 20/	2 at 8:0	0 (AM) (PA	
Well on L	.ine:		Started	2	0 at		(AM) (PM)	Taken		20 _	at	(AM) (PN	
			· · · · · · · · · · · · · · · · · · ·			OBSERVE	D SURFACE	DATA			Ouration of Shut-	in <u> 24</u> н	
Static / Orifice Dynamic Size Property (inches		8	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		(P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure $(P_w) \propto (P_i) \propto (P_e)$		Duration (Hours)	Liquid Product (Barrels)	
Shut-In	.51)	paig (i iii)	Miches 11 ₂ 0			psig	65	psig	psia	24		
Flow											,		
						FLOW STR	EAM ATTRIE	BUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Extension Fac		Flowing Femperature Factor F _{rt}	Deviation Factor F _{pv}		Metered Flow 'R (Mcfd)	GOR (Cubic Fe Barrel)	Gravit	
					(ODEN EL	OWY (DET IV	ERABILITY)	CALCUI	ATIONS				
(P _c) ² =		_:	(P _w) ² =_	:	P _d =	• •	•	- 14.4) +		:	(P _a) (P _d)	1 ² = 0.207 1 ² =	
(P _e) ² - (F or (P _e) ² - (F	P _a) ^z P _d) ^z	(F	(P _w) ² - (P _w) ²	thoose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Midded by: $P_c^2 - P_w^2$	LOG of formula 1, or 2, and divide	b.s-b.s	Backpressure Curve Slope = "n"orAssigned Standard Slope			.og []	Antilog	Open Flow Deliverability Equals R x Antilog (McId)	
								·					
Open Flow			Mcfd @ 14.65 psia			sia Deliverability				cfd @ 14.65 ps	4.65 psia		
The u	undersi				Company, s		e is duly auti	orized to		e above report		as knowledge of	
•									nicl	march Rip	ley	RECEIVE	
			Witness (if	any)				0		For Co	npany (MAD 2 0 4	
			For Commis	slon			•		 -	Checke	id by	MAR 2 8 2	

	perjury under the laws of the state of Kansas that I am authorized to request 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the foregoing pressure correct to the best of my knowled of equipment installation and/or	information and statements contained on this application form are true and dge and belief based upon available production summaries and lease records upon type of completion or upon use being made of the gas well herein named. exemption from open flow testing for the Kuttler F #1
is cycled on p is a source of is on vacuum is not capable I further agree to supply to the	methane producer plunger lift due to water f natural gas for injection into an oil reservoir undergoing ER at the present time; KCC approval Docket No e of producing at a daily rate in excess of 250 mcf/D the best of my ability any and all supporting documents deemed by Commission e this claim for exemption from testing.
	Signature: <u>Janue Ripley</u> 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.