KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Rev	erse Sid	le)					
☐ or	en Flow												
Deliverability					API No. 15 075-20672-00-00								
Company	v			/ / //		Lease		<u> </u>	J 20012 00 (Woll N	umbor	
Horseshoe Operating, Inc.						Johnson				′ 1A	Well Number		
County Location Hamilton E/2 SW			Section 12				RNG (E/W) 41W			Acres Attributed			
Field Bradshaw				Reservoir Winfield			Gas Gathering Connec Oneok		ection				
Completion Date				Plug Back Total Depth 2361' TD			Packer				······		
Casing Size Weight			Internal I 4.052					orations	To				
4.5 10.5 Tubing Size Weight		Internal Diameter		Set at		1850-51 Perforations		2320-23 To					
2.375 4.7			2.000	Diameter	2333		2323		2327				
Type Completion (Describe) Single				Type Flui Water	Type Fluid Production Water			Pump U	Plunger? Yes	er? Yes / No			
Producing	Thru (Ar	nulus / Tubir	ng)	% (Carbon Dioxi	de		% Nitrog		Gas C	aravity -	G _a	
Annulus					à e							•	
Vertical Depth(H)					Pressure Taps Flange					(Meter 2"	(Meter Run) (Prover) Size 2"		
Pressure	Buildup:	Shut in	9-8 2	0 // at_	1:00	(AM) (PM)	Taken	9-0	7 20.	//_ at /.'C	00	(AM) (PM)	
Well on L	ine:	Started	2	0 at		(AM) (PM)	Taken	·	20	at		(AM) (PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shu	t-in	24_Hours	
Static /	Orlfice	Circle one: Meter	Pressure Differential	Flowing	Well Head	I Wallhaad Proseura			Tubing	Duration	1.2		
Dynamic Property	Size (inches)	Prover Press psig (Pm)	iu <i>re</i> in	Temperature t				Wellhead Pressure (Pw) or (Pl) or (Pc) psig psia		(Hours)		Liquid Produced (Barrels)	
Shut-in	.500					,	49	1 1	poru	24			
Flow				i 			<u> </u>	<u> </u>					
					FLOW STR	EAM ATTRIE	UTES						
Plate Coeffieci (F _b) (F Mcfd	ent) Pr	Circle one: Meter or over Pressure psia	Press Extension	Grav Fact F _e	tor T	Flowing emperature Factor F _{II}	ure Deviation		Metered Flow R (Mcfd)	v GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G	
													
D 12				•		ERABILITY))² = 0.2	07	
P _e) ² =		(P _*)² =	Choose formula 1 or 2:	P _d = .	<u> </u>		- 14.4) +		 :,	(P _a) ² =		
(P _e) ² - (P or (P _e) ² - (P	• `	P _e) ² - (P _w) ²	1. P _c ² -P _c ² 2. P _c ² -P _d ²	LOG of formula 1, or 2, and divide	P ₂ . P ₂ 2	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			divided by: P.2 - P.2	by:		Sianuan	u siup e				 	(
Ones Class													
pen Flow			Mcfd @ 14.6			Deliverabili	<u> </u>			Actd @ 14.65 ps			
			n behalf of the o			,	0	o make th	e above repor	t and that he h.	as know	ledge of	
		,	and report to tide	and consti	. LAGGUIGU	una uno/_1		, ,)	1.	 • `	د <u>۱۱</u> .	
-	······································	Witness (i	if any)				4	enicl		lly-	F	ECEIVE	
		For Comm	nission						Check	ad by	00	7 2 9 21	

KCC WICHITA

exempt status un and that the fore correct to the bes of equipment inst I hereby requ	der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. going pressure information and statements contained on this application form are true and thought of my knowledge and belief based upon available production summaries and lease records callation 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 Johnson 1A counds 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
	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 10-18-	<u>//</u>
	Signature: <u>Janice 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.