KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:				!	(See Instruc	tions on Rev	erse Side	" 15-0	715-20)152-00	D- 00	
Open Flow				Test Date	e:_				,	••			
	elivera	bilty		·	<u> 3-7-/</u>	2							
Compan Horses		Оре	erating, Inc	C.			Lease Doyle				· 1	Well Number	
County Hamilton			Location C SW		Section 21		TWP 23S		RNG (E/W) 41W		Acres Attributed 640		
Field Bradsh	naw	·			Reservoir Chase				Gas Gathering Connect Oneok Field Servi				
Complete 8/12/70		te		Plug Back Total Dept 2503		:h		Packer Set at			•		
Casing S 4.5	Size		Welgh 10.5	nt	Internal Diametr		Set at 2523		Perforations 2448		то 2458		
Tubing Size 2.375			Weigh 4.7	nt	internal Diame 1.995		Set at 2456		Perforations		То		
Type Cor Single	•	•	escribe)		Type Fluid Production Water		1		Pumping Ur % Nitrogen		Plunger? (Yes)	Plunger? (Yes)/ No nit - Rod	
Producing Thru (Annulus / Tubing)						% Carbon Dioxide			% Nitro	pan O	Gas Gr	avity - G	
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Si Flange												Run) (Prover) Size	
Pressure Buildup: Shut in 3-6 20/2 at //:30 (AM) (PM) Taken 3-7 20/2 at //:30 (AM) (PM)													
Well on L	Jine:		Started	2	0 at	· · · · · · · · · · · · · · · · · · ·	(AM) (PM)	Taken			at	(AM) (PM)	
····						OBSERVE	D SURFACE	DATA			Duration of Shut-	in <u>24</u> Hours	
Static / Dynamic Property	Orifi Siz (inch	:0	Circle one: Mater Prover Pressu psig (Pm)	Pressure Differential in Inches H ₀ 0	Flowing Temperature t	Well Head Temperature t	Casi Weilhead F (P _w) or (P ₁	ressure) or (P _c)	Wellho	Tubing ead Pressure × (P _t) or (P _s)	Duration (Hours)	Liquid Produced (Barreis)	
Shut-In	.62	15	parg (r m)	Inches H ₂ U			48 48	psia	palg	psta	24		
Flow													
						FLOW STR	EAM ATTRI	BUTES		I		T	
Plate Coeffiect (F _b) (F Mcfd	ient ,)		Clicle one: Meter or ver Pressure pala	Press Extension √ P _m x h	Grav Fact F _c	tor 1	Flowing Temperature Factor F _{II}	Fa	iation ctor : pv	Metered Flor R (Mcfd)	y GOR (Cubic Fe Barrel)	i Gravitu	
								<u> </u>		·			
(P _c)² =			(P _w)² =		•		ERABILITY)	CALCUL - 14.4) +			(P _*) (P _a)	² = 0.207	
(P _c) ² -(P _a) ²				Choose formula 1 or 2:			% (F			Log	Antilog	Open Flow Deliverability	
(P _a) ² - (P _a) ²				2. P _e ² -P _d ²	1. or 2, and divide by:	P.2. P.2		signed and Slope				Equals R x Antilog (Mcfd)	
					<u> </u>				_				
Open Flow			Mcfd @ 14.65 psia			Deliverability		J	Mcfd @ 14.65 psia				
					Company, s	Executed	e is duly aut	horized to	o make to	apri	nt and that he ha	s knowledge of , 20 12.	
			Witness (if			RECE	_	1		Page C	Company ()		
			For Commit	ssion		APR 1	x 7017 [—]			Chec	aked by		

	4.
	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to reques t status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	at 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 record
of equip	pment installation and/or upon type of completion or upon use being made of the gas well herein named ereby request a one-year exemption from open flow testing for the <u>Doyle 1</u>
	Il 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
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commiss
itaff as	necessary to corroborate this claim for exemption from testing.
Oate:	4/16/12
	•
	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.