KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:						(See Instru	ctions on Rev	erse Side)					
□ o	pen Fi	w													
	elivera	bilty			• <u>• • · · · · · · · · · · · · · · · · ·</u>	Test Dat 3-9-				AP 15	1 No. 15 -071-2003	5 - 0000)		
Horses	shoe	Ope	erating, I	nc.				Lease Drake	•			1	Well N	lumber	
Greeley C NE			Section 27		TWP 20S		RNG (E/W) 40W		Acres Attributed 640						
Field						Reservo				Gas Ga	thering Conne	ection	 -	 . <u></u>	
Bradsh						Chase					Midstrea	m ·		•	
Completi 11/197	3	te 				Plug Bac 2848	k Total Dep	pth		Packer None					
Casing Size We 5.5 14.			<u> </u>		Internal 5.012	Diameter	Set at 2954		Perforations 2810		To 2820				
Tubing S 2.375	ize		Weig 4.7	ght	.,	Internal I 1.995	Diameter	Set at 2831		Perf	orations	То			
Type Cor Single		n (D	escribe)			Type Flui Water	d Productio	nc		Pump U Yes	nit or Traveling	Plunger? Yes	/ No		
	-	(Ani	rulus / Tubi	ng)		% C	arbon Diox	ride		% Nitrog	gen	Gas Gr	avity -	G _s	
Annulus														•	
Vertical D 2955	epth(F	()					Pres	ssure Taps				(Meter	Řun) (P	rover) Size	
Pressure	Buildu	p: :	Shut in	3	3-8 2	0 <u>//</u> at /	0:00	(AM) (PM) 1	aken	3-	920	// at // //	$\overline{\infty}$	(AM) (PM)	
Well on L	ine:	ļ	Started		2	0 at		_ (AM) (PM) 1	aken		20	at		(AM) (PM)	
		-	Circle one				OBSERVE	ED SURFACE				Duration of Shut-	in <u>é</u>	34 Hours	
Static / Dynamic Property	Orifi Siz (inch	tice Meter		sure	Pressure Differential in Inches H _a 0	Flowing Temperature t	Well Head Temperature t	Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Li (Hours)		id Produced (Barrels)	
Shut-In	62	5			2			psig	7.5	psig	psia_	24	1		
Flow		ı				:							1		
							FLOW ST	REAM ATTRIE	UTES					J	
Plate		Circle one:			Press	T		Flowing	1			-			
Coefficient (F _b) (F _p) Mcfd		<i>Meter</i> or <i>Prover Pressure</i> psla		Extension P _m x h		Grav Fact F _g	or	Temperature Factor F _{ff}		ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
						(OPEN FLO	OW) (DELIV	/ERABILITY)	CALCUL	ATIONS		(P)	² = 0.2	 207	
(P ₀)² =	 -	<u> </u>	(P _w) ² :	=	:	Pa≂		% (P _s	- 14.4) +	14.4 =	<u></u> :	(P _a)		<u> </u>	
$(P_c)^2 + (P_d)^2$ or $(P_c)^2 - (P_d)^2$		(P _L) ² - (P _w) ²		Choose formula 1 or 2: 1. P ₂ ² -P ₂ ² 2. P ₂ ² -P ₂ ² dividual by: P ₂ ² -P ₂ ²		LOG of formula 1. or 2. and divide by:		Backpressure Curv Slope = "n" or Assigned Standard Slope		n x LOG		androg		Open Flow Deliverability uals R x Antilog (Mcfd)	
· <u>-</u>	_														
Open Flow	<u> </u>				Mcfd @ 14.6	SE acia		Deliverabili	· · · · · ·				<u></u>		
	-					<u> </u>	<u> </u>	Deliverabili				Mcfd @ 14.65 psi			
					ehalf of the				abla	day of	June above report	rt and that he ha	s know	ledge of	
			Witness	(If arry))			.—	· J	MIL	For	ompany y	REC	EIVED	
		-	For Com	nission	1						Chec	ked by	JUN-	1 0 2011	

	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request of status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and th	at the foregoing pressure information and statements contained on this application form are true and
correc	t to the best of my knowledge and belief based upon available production summaries and lease records
of equi	pment installation and/or upon type of completion or upon use being made of the gas well herein named.
l h	ereby request a one-year exemption from open flow testing for the Drake 1
gas we	ell 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 a source of natural gas for injection into all oil reservoir undergoing EA
	is not capable of producing at a daily rate in excess of 250 mcf/D
	Is not capable of producing at a daily rate in excess of 250 mc/b
l fu	rther 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: _	6-8-11
	•
	Signature: Janua Ripley
	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.