KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruct	ions on Reve	rse Side)	_			
☐ or	en Flo	w							401	N. ar	•		
□ D€	eliverat	oilty			Test Date 5-22	-/2				No. 15 -075-20745-	-0000		
Company Horseshoe Operating, Inc.					<u> </u>	Lease Earl					Well Number		
County Hamilto			Locati S NW	on	Section 23		TWP 22S		RNG (E.	W)		Acres A	hetudinti
Field					Reservoi					hering Connec			
Bradsh					Winfiel					Midstream	<u> </u>		
Completi 5-9-200	01	le 			2759	k Total Dept			Packer 8				
Casing S 4.5			Weigh 10.5	it	Internal I 4.052	Diameter	Set at 2769		273	rations 0	70 2742		···
Tubing S 2.375	ize		Weigh 4.7	t	Internal E 2.0000		Set at 2749		Perfo	rations	То		
Type Con Single	npletio	n (De		· - · · · · · · · · · · · · · · · · · · ·		d Production			Pump Ur Yes	nit or Traveling I	Plunger? Yes	/ No	
		(Anz	nutus / Tubing	2)		arbon Dioxid	te		% Nitroo	en .	Gas Gr	avity - (3.
Casing		(3 /						 -	*		
Vertical D	Depth(i	1)				Press Flans	ure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildu	p: :	Shut in	5-21 2	0 12at_			aken	5-8	22 20/	12at 611	18	(AM) (PM)
Well on L	ine:		Started	2	0 at	•	(AM) (PM) T	Taken	• .	20 .	at		(AM) (PM)
	,				,	OBSERVE	D SURFACE	DATA			Duration of Shut-	in_d	4_Hours
Static / Dynamic Property	Orifi Siz (Inch		Circle one: Mater Prover Pressu psig (Pm)	Pressure Differential in Inches H _o 0	Flowing Temperature 1	Well Head Temperature t	Casin Weilhead P (P _w) or (P ₁)	ressure or (P _e)	Weilhe (P _w) o	Tubing and Pressure or (P ₁) or (P ₄)	Ouration (Hours)		d Produced Barrels)
Shut-In	.60	35	pag (rm)	inches ri _g u			psig	88 	psig	psla .	24		
Flow		_											
						FLOW STR	EAM ATTRIE	UTES					
Plate Coeffiec (F _b) (F Mcfd	ent ,)	Pro	Circle one: Meter or ver Pressure psla	Press Extension P _m xh	Grav Fact	tor T	Flowing emperature Factor F _{it}	Fa	lation ctor	Metered Flow Fl . (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
								<u> </u>					
(P _c)² ≈			(P_)² =	•	(OPEN FLO		ERABILITY)	CALCUL - 14.4) +			(P _a))² ⇒ 0.2	207
· •, - <u>-</u>		=:		Choose formula 1 or 2							٠ ٠	1	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^3$		(P ₀)2- (P ₀)2		1. P ² -P ² 2. P ² -P ²	LOG of formula 1. or 2. and divide	formula 1. or 2. and divide p.2. p.2		Backpressure Curve Slope = "n" 		rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				dWord by: Pg - Pg	by:	<u> </u>	Standar	. скре	1			 	
				-									
Open Flow Mcfd @ 14.65 psia						Delive rability				Mcfd @ 14.65 psia			
		-	**	n behalf of the	, ,			horized t	day of _	June	t and that he h	as knov	dedge at 20 <u>/ 2</u> .
<u> </u>			Witness (I)	any)					Janu	Ford	Incomy	REC	EIVED
			For Comm	ission			-			Check			0.5.0040

JUN 2 5 2012

exemp	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.
	at the foregoing pressure information and statements contained on this application form are true and 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. ereby request a one-year exemption from open flow testing for theEarl #1
	all 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
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissi necessary to corroborate this claim for exemption from testing.
Date: _	6-22-12
	Signature: <u>Janice Ripling</u> Title: <u>Production</u> 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.