KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Reve	erse Side)					
Open Flow				-					ا نے اور ا	m	•			
Deliverabilty					Test Date: 5-22-12				No. 15 -20043-009)				
Company Horseshoe Operating, Inc.					200	Lease Householder					<u></u>	Well Number		
				Section				RNG (E/	W)		Acres Attributed			
Greeley C SE				29	29 20S			40W		·	640			
				and the second second	Reservoir Winfield				hering Connec idstream	etion				
Completion 6/1973	òn Dai	e			Plug Bac 2828	k Total Dept	h		Packer S	Set at				
Casing Size Weight 4.5 9.5				Internal (4.09	Diameter	Set at 2831		Perforations 2815		To 2822				
	5			Internal (Diameter	Set at			Perforations		То			
					1.995 2814 Type Fluid Production			Rump Hr	nit or Traveling F	Olungar? Vac	/ No			
Single - Gas				Water	Water			Pump	Unit - Rod	_				
Producing Annulus		(Anr	nulus / Tubing	1)	% C	Carbon Dioxid	de		% Nitrog	èn .	Gas Gr	avity - G _g		
Vertical Depth(H)				· · · · · · · · · · · · · · · · · · ·	Pressure Taps					•	Run) (Pro	ver) Size		
2832				Flange					_	3"				
Pressure	Buildu	p: :	Shut in	5-21 2	0.12at	11:06	(AM) (PM) 1	Taken	50	22 20/	2 at //:00	<u>6</u> (A	M) (PM)	
Well on L	ine:	:	Started	2	0 at	 	(AM) (PM) T	aken		20 _	at	(A	M) (PM)	
						OBSERVE	D SURFACE	DATA		C	Ouration of Shut-	in 2	Hours	
Static /	I Meler i Ditterential I		Flowing Well Head		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid	iquid Produced			
Dynamic Size Property (inch.)		Prover Pressure		re in	Temperature t	Temperature t	(P _w) or (P _t) or (P _c)		(P _w) or (P _t) or (P _c)		(Hours)	1 '	(Barrels)	
Shut-In	.62		psig (Pm)	Inches H ₂ 0			psig	psia 7//	psig	psia	24			
Flow														
						FLOW STR	EAM ATTRIE	BUTES		:				
Plate Coeffiecient		Circle one: • Meter or		Press Extension	Grav Fac	, I 4	Flowing emperature	y I Dev		Metered Flow	GOR (Cubic Fe	et/	Flowing Fluid	
(F _b) (F _p) Mcfd		Pro	ver Pressure psia	✓ P _m xh	F		Factor F ₁₁		pv	(Mcfd)	Barrel)		Gravity G _m	
				,										
							ERABILITY)					² = 0.20	7	
(P _c) ² =		=:	(P _w) ² =	: Choose formula 1 or 2	P _d =		% (P _c	- 14.4) +	14.4 =		(P _d):	' = T		
(P _c) ² - (P _a) ² or		(P	(P _w) ² - (P _w) ²	1. P _c ² -P _a ² 2. P _c ² -P _d ²	LOG of formula 1. or 2.		Backpressure Curve Slope = "n"		nxl	LOG	Antilog	Open Flow Deliverability Equals R x Antilog		
(P _c) ² - (I	P _d) ²			divided by: $P_c^2 - P_w^2$	and divide	P _c ² - P _w ²	Assig Standar				·	1	cfd)	
									<u>.</u>	·	· · · · · · · · · · · · · · · · · · ·			
			·		<u> </u>			· · · · · · · · · · · · · · · · · · ·						
Open Flow Mcfd @ 14.65 psia				65 psia	Deliverability				Mcfd @ 14.65 psia					
		_			• •			. 1	make th	e above report	and that he ha		· , _	
the facts s				id report is true	and correc	t. Executed RECEIN		26	day of(june	5/2	, 20	12.	
·			Witness (il	any)	<u> </u>		- Zur —	(janie	U KY	npany J			
	- 10 - 20 - 2		For Comm	ssion				<i>V</i>		Checke	U by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that 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 records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Householder 1-29 gas well on the grounds 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 I further 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: 6-26-12
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.