RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruc	tions on Rev	verse Side)				
Open Flow Deliverabilty					Test Date	Test Date: 3-6-13			API No. 15 071-20172 – <i>0000</i>				
Company Horsesh		erati	na lac				Lease Ross	/			2	Well Nun	nber
County Greeley			Location C SW/4 NW/4		Section 5			TWP 18S		W)		Acres Attributed 640	
Field Bradshaw				Reservoir Winfield				Gas Gathering Connection DCP Midstream					
Completic	on Date	}			Plug Bac 2965'	k Total Dep	th		Packer S	Set at			
Casing Size 4-1/2"			Weight	Weight 10.5		Internal Diameter 4.052		at 3'	Perforations 2909'		то 2925'		
Tubing Size			Weight		Internal D 1.995			Set at 2883'		rations	То		
Type Completion (I Single - Gas					Type Flui	Type Fluid Production Water			Pump Unit or Traveling		Plunger? Yes / No		
Producing Thru (Annulus /			ulus / Tubing				xide		% Nitrogen		Gas G	Gas Gravity - G _g	
Annulus Vertical C)				Pressure Taps			(Meter Run			Run) (Pro	over) Size
				3-5	12	O'EN	$\overline{}$	<u></u>	2.	-/-	12 0'1	5 6	
Pressure Well on L			Shut in			13 at 8:50		(AM) (PM) Taken			_		(M) (PM)
well on L	me:		starteu		20 at								4 Hours
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	lemperature	Well Head Temperature t	Wellhead Pressure		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration of Shut Duration (Hours)	Duration Liquid Produ	
Shut-In	.50)	F (61	paid	pag	psia	24		
Flow													
						FLOW STI	REAM ATTR	IBUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Grav Extension Fact ✓ P _m x h F _s		tor Temperature		viation actor F _{pv}	Metered Flow R (Mcfd)	(Cubic Fo	GOR Fit (Cubic Feet/ F Barrel) Gi	
					(OPEN FL	OW) (DELI\	/ERABILITY) CALCUL	ATIONS	,	(P)² = 0.20	 17
(P _c) ² =		_ :	(P _w)² =	:	P _d =		% (F	P _c - 14.4) +	- 14.4 =	: ,	(P _d		··
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 of 1. $P_c^2 - P_a^2$ 2. $P_a^2 - P_a^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1, or 2, and divide	P.2 - P.2	Backpressure Cur Slope = "n" or 		l n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				41.7									
Open Flo	n Flow Mcfd @ 14.65 psia			4.65 psia	Deliverability			Mcfd (Mcfd @ 14.65 ps	@ 14.65 psia		
The	undersi				e Company,		he is duly at		to make to day of	he above repo	rt and that he h	, 2	<u>/3</u>
			Witness (if	any)			_	7		For C	Company /	(CC	WICHT
	,		For Commi	ssion			-			Chec	cked by	JUN	1 9 2013

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 Ross #2 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.
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.