KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Ins	tructions on R	everse Sid	le)			
Open Fig				Test Da	te.			A D	No. 16		
Deliverabilty			Test Date: 7-18-12				API No. 15 075-20661 - 00-00				
Company Horseshoe Operating, Inc.			Lease Sinsbaugh					2	Well Number		
ounty amilton	Location C NW/4		n	Section 17		TWP 22S		RNG (E/W) 41W		Acres Attributed	
ield iradshaw				Reservo Winfield			Gas Gathering Con Oneok		haring Conne	ection	
ompletion Date 0-23-99				Plug Back Total Depth 2738'				Packer S	Set at		
sing Size		Weight 10.5		Internal Diam 4.000		eter Set at 2730'		Perforations 2704 ^s		To 2718'	
bing Size 3/8	Weight 4.7			Internal Diame 2.000		er Set at 2720'		Perforations		То	
Type Completion (Describe) Single - Gas				Type Flu Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod				
oducing Thru I nulus	(Annulus /	Tubing)		% (Carbon D	ioxide		% Nitrog	en	Gas (Gravity - G
ertical Depth(H)				Pressure Taps Flange				(Meter Run) (Prover) Size 2"			
essure Buildu	ıp: Shutin	7	1-17 2	o/2 _{at} _	11.30	2 (AM) (PM)	Taken	7-10	20/	12 at //i.	30 (AM) (PM)
ell on Line:								•			(AM) (PM)
					OBSER	VED SURFAC	E DATA			Duration of Shu	rt-in_24 Hou
namic Size	Orifice Size (inches) Circle on Meter Prover Pres psig (Pr		Pressure Differential in Inches H ₂ 0	tial Flowing Tomperature To		Head Casing Wellhead Pres (P _w) or (P _t) or		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration Liquid Produ (Hours) (Barrels)	
nut-in .50	00					psig	psia 48.9	psig	psia	24	
low											
Plate	Circle one:				FLOW S	TREAM ATTR	BUTES				
oeffiecient (F _b) (F _p) Mcfd	Meter or	Meter or rover Pressure		ess Gravension Factor		Towns a sense of the sense of t		ation ctor	Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eet/ Fluid
	ě		.								
2 =	_: (P	")² =	:	(OPEN FLO	OW) (DEL	.IVERABILITY) % (P) CALCULA ² c - 14.4) +		:) ² = 0.207) ² =
or P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	(P _c) ² - (P _w) ²		se formula 1 or 2: 1. P ₀ ² - P ₂ 2. P ₀ ² - P ₂ 4. LOG of formula 1. or 2. and divide by:		Backpres Slop Ass	Backpressure Curve Slope = "n" or Assigned Standard Slope		pe []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
		-									
en Flow			Mcfd @ 14.6	5 pein	·	Patter and 1	J				
The undersia						Deliverabi				cfd @ 14.65 ps	
			ehalf of the (Ci.	make the lay of	above report	and that he ha	as knowledge of RECEIVI
	Witn	ess (if any	')				7	gu nu	For on	npany (OCT 11
1	For C	ommissio	Q			_			Checker	d by	KCC WICH

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 Sinsabaugh #2 gas well 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 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: $10-8-12$
Signature: <u>Janice Ripley</u> 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.