KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruct	ions on Re			_			
Open Flow					15-07:					146-000	OC	
Deliverability				7/2/a	Test Date: ,				No. 15 -20146-00-0	00		
Company Horseshoe Operating, Inc.					Lease Livingston				20140 00 0	1	Well Number	
County		Locati	on	Section		TWP		RNG (E/	W)	··········	Acres Attributed	
Hamilton C SW/4			16				40W	•••,		7.0.00 Fillinguiso		
Fleid Bradshaw					Reservoir Winfield			Gas Gathering Connection DCP Midstream				
Completion Date				Plug Bac 2585'	Plug Back Total Depth 2585'			Packer 5 2528' -				
Casing Size 4.5"				Internal 0 4.052	Diameter	Set at 2600'		Perforations		То		
Tubing Size 2-3/8"				Internal D	Diameter	Set at 2546*		Perforations		То		
Type Completion (Describe) Single - Gas				Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod			
Producing Thru Annulus	J (Anr	rulus / Tubing)	% C	arbon Dioxid	de		% Nitrog	en	Gas G	ravity - G	
Vertical Depth(I	H)				Press	sure Taps				(Meter	Run) (Prover) Size	
				Flange					3.5"			
Pressure Buildu	up: :	Shut in	1/25 2	o//_ at	6:15	(PM)	Taken	7/	26 20	11 at 6:12	5 (AM)(PM)	
Well on Line:	:	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
 -											2//	
Circle one: Pressure					OBSERVED SURFACE DATA Casing			Duration of Si			i-in 03 7 Hours	
Static / Orif Dynamic Siz	fice Meter		Differential	Flowing Temperature	Well Head Temperature	Wellhead Pressure		Wellhead Pressure		Duration	Liquid Produced	
Property (inch	Prover Pressi		re in Inches H _s 0	t	t	t (P _*) or (P _t			(P ₁) or (P ₆)	(Hours)	(Barrels)	
Shut-In		, , ,				psig	70.1	psig	psle	24		
Flow				,								
,l,				!·;	FLOW STR	EAM ATTR	RIBUTES	.1	'			
Plate	l	Circle one:	Drana			Flowing					Flowing	
Coeffiecient		Mater or	Extension	Press Grav Extension Fact		emperature			Metered Flov R	v GOR (Cubic Fe	l Eluia I	
(F _b) (F _p) Mofd	Prover Pressure psia		√ P _m xh			Factor F _{ii}	Fpy		(Mcfd)	Barrel	l faroulty l	
	l		 .		J			l				
P _c) ² =	_:	(P _w)² =	:	(OPEN FLO	OW) (DELIVE %		') CALCUL P _e - 14.4) +		<u>·</u> :	(P _a) (P _d)) ² = 0.207) ² =	
$(P_e)^2 - (P_a)^2$ $(P_a)^2 - (P_a)^2$		1. P ² - P ²	1. P ² · P ² LOG of		Backpressure Curve		,	Г٦		Open Flow		
or			2 P2 P2	lormuta		Slope		. nxl	.og	Antilog	Deliverability	
(P _a)2 - (P _a)2			Middled by: P. 2 - P.	and divide	P.2. P.2	Assigned Standard Slope			L J }	_	Equals R x Antilog (Mcfd)	
-							<u> </u>					
												
Open Flow Mcfd @ 14.65 psia						Deliverability Mcfd €				Mcfd @ 14.65 ps	ia	
The unders	igned	authority, on	behalf of the	Company, s	tates that he	is duly at	uthorized t	o make th	e above repo	rt and that he ha	as knowledge of	
e facts stated t	hereir	, and that sa	id report is true	and correct	t. Executed	this the	3_	day of	lugu	st_	, 20	
								rice	Kip	lly_	_	
		Witness (If	any)			-	1			отрал	RECEIVE	
		For Commi	selon			-			Chec	ked by	AUG 1 1 2	

KCC WICHITA

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 Livingston 1
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: 8/3///
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.