KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(8	See Instructi	ions on Heve	erse Side	9)					
	en Flow iverabilty			Test Date	· •				No. 15 20150-00-00)			
Company Horsesho	ne Operat	ina. Inc.		1	0	Lease Livingsto	n			2	Well Numl	per	
County Hamilton	County Location			Section 8		TWP 23S		RNG (E/W) 40W			Acres Attr	ibuted	
Field Bradshaw					Reservoir Winfield		.		Gas Gathering Connection DCP Midstream				
Completic 8/6/76	n Date			Plug Back 2563'	Total Dept	h		Packer Se	et at				
Casing Si 4.5"	Casing Size Weight .5" 10.5			Internal Diameter 4.052		Set at 2592'		Perforations 2552' - 2562'		То			
Tubing Size 2-3/8"		Weight 4.7			Internal Diameter 2.000		Set at 2560'		Perforations		То		
Type Completion (Describe) Single - Gas			Type Fluid Water	Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / N Plunger Lift						
_		nulus / Tubing)		% C	arbon Dioxi	de		% Nitroge	n ,	Gas Gr	ravity - G _g		
Vertical Depth(H)				Pressure Taps Flange				(Meter Run) (Prover) Size 3.5"			/er) Size		
Pressure	Buildup:	Shut in -8	/5 2	010 at 1			Taken	81	6 _ 20	10 at 10;1	5 (AI	(PM)	
Well on L	•		,			\sim	Taken		20	at	(A	vi) (PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shut	-in_2L	L_Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	oter Differential Pressure in		Well Head Temperature t	nperature (P) or (P) or (P)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	.625	paig (i iii)				43	polu	81		24			
Flow							٠.	<u> </u>					
				<u> </u>	FLOW STR	REAM ATTRI	BUTES	:		*.		Flowing	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P _m xh	Grav Fac	tor	Flowing Temperature Factor F _{tt}	F	viation Metered Flor actor R F _{pv} (Mcfd)		GOR (Cubic Fo Barrel	eet/	Fluid Gravity G _m	
				•	• •	'ERABILITY) % (P.		LATIONS + 14.4 =) ² = 0.207	•	
$(P_c)^2 = $ $(P_c)^2 - $ or $(P_c)^2 - $	(P _n) ² (P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _d ² ided by: P _c ² - P _w	LOG of formula 1, or 2. and divide		Backpres Slope Ass		e nxl	og [Antilog	Oper Delive Equals F	n Flow erability R x Antilog	
				_						C.	-		
Open FI			Mcfd @ 14	.65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	si á		
The	undersigne		behalf of the	Company,			thorized	to make th	e aboye rapo	rt and that he h	as knowle	1/1	
the facts	stated there	ein, and that said		e and correc	CI. EXECUTED	inis tne	G	anicl	Riple	Somplany	REC	EIVE	
		Witness (if	any)				U		Ţ 101C	U ,	_ 	1 4 20	
		For Commis	sion						Chec	ked by	UUI	, , 20	

exempt status ur	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
correct to the be	going pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records.
	allation and/or upon type of completion or upon use being made of the gas well herein named. uest a one-year exemption from open flow testing for the Livingston 2
gas well on the g	rounds 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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 10 11	10
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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.