KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				((See Instruct	tions on Re	verse Side	e)				
Open F	low			-								
Deliverabilty				Jest Date					No. 15 5- 22:450-00-0	n		
Company				Jad	70	Lease			20,646		Mail Niverban	
Horseshoe Operating, Inc.						Livingst	on		•	1A	Well Number	
County Location Hamilton C NW/4		Section 16		TWP 23S		RNG (E/W) 40W		· · · · · · · · · · · · · · · · · · ·	Acres Attributed			
Field C NVV/4			Reservoi	r	235			hering Conne	ction			
Bradshaw				Winfield			70.11	DCP Midstream				
Completion Date 3/25/76			Plug Back Total Depth 3000'				Packer S	Set at				
asing Size 5"				Internal Diameter 4.052		Set at 2552		Perforations 2520' - 2528'		То		
bing Size				Internal Diameter 1.995		Set at 2533'		Perforations 2552' - 2562'		То	· · · · · · · · · · · · · · · · · · ·	
Type Completion (Describe) Single - Gas				Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod				
Producing Thru (Annulus / Tubing)				% Carbon Dioxide				% Nitrogen Gas Gravity - G				
nnulus											5	
/ertical Depth(H)				Pressure Taps Flange						(Meter 2"	Run) (Prover) Size	
essure Build	up: S	Shut in	-21 a	1/3 _{at}			Taken	5-	22 201	13 _{at} 10,	0/ (AM) (PM)	
ell on Line:	•	started		-				-		at	_	
		naneu		, at		(///// (1 14/)	IGNOIT			at	(AW) (FW)	
		·			OBSERVE	D SURFACE	DATA			Duration of Shut	-in_ <u>24_</u> Hours	
Static / Orifice		Circle one: Meter	Pressure Differential	Flowing	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced	
- 1	ze hes)	Prover Pressure	;	Temperature Temp	Temperature t	t (P _w) or (P _t		(P _w) or	(P ₁) or (P _c)	(Hours)	(Barrels)	
nut-in .5	psig (Pm)		Inches H ₂ 0			psig	57.7 psig		psia	24		
Flow												
					FLOW STR	EAM ATTRI	BUTES	.				
Plate Circle one: Pres						Flowing					Flowing	
oeffiecient	1	Neter or	Extension	Grav Fact	or Temperature		Deviation Factor		Metered Flow R	GOR (Cubic Fe	eet/ Fluid	
(b) (p)		er Pressure psia	$P_m x h$			Engtor		pv	(Mcfd)	Barrel	Gravity	
Micig	ļ					· ft					G _m	
	i			(OPEN FL	OW) (DELIVE	RABILITY	CALCUL	ATIONS				
,2 ₌₌	•			P _d =	FLOW) (DELIVERABILITY) CALCULA =%						$(P_a)^2 = 0.207$ $(P_d)^2 =$	
P _c) ² - (P _a) ²	(P))² - (P _w)²	1. P _c ² - P _a ²	LOG of		Backpressure Curv			ГП		Open Flow	
or P _a) ² - (P _a) ²	(' °	, - (, ",	tormula				e = "n" or	nxl	.og	Antilog	Deliverability	
P _c) ² - (P _d) ²	1		2. P _c ² - P _d ²	and divide by:	P.2. P.2	Assigned Standard Slope			LJI	-	Equals R x Antilog (Mcfd)	
		an an	wasa by: I'c 'F w			Ciana	- Colopo					
								_	-			
n Flow Mcfd @ 14.65 psia				Deliverability M								
			behalf of the (-	クス		e above report	and that he ha	as knowledge of	
ลบเร รเสเยนิ โ	nerein,	anu mat said	report is true	anu correct	. Executed t	uns uie <u> </u>		anic	O P.	los	KCC WICH	
		Witness (if a	ny)				7	goju		mpany /	JUL 2 5 201	
		For Commiss	lon			_			Check	ed by	RECEIVE	

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 1A 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 a source of Natural gas for injection into all oil reservoir undergoing En 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: $\frac{7/33/13}{}$
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.