KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:						(See Instru	ictions on Ri	everse Sid	de)	15 0-	5 2011		00-00
O _F	pen Flov	N									12-0	15-2019	46	-00-00
De	eliverabi	ilty				lest Dat	9:			A	1 3 1 4 0 0 0	മ		
Company		era	ting, Inc.			0/0/	// 0	Lease Livings	ton			1	Well 1	lumber
County			Loca)	Section		TWP		RNG (E	Z/W)		Acres	Attributed
Hamilton	n		C SW	4		16		23\$		40W				
Field Bradshaw		• •	garable (٠,	Reservoi Winfield		j	.·			thering Conn Midstrea	y'	tion	
Completion Date						Plug Bac 2585'	Plug Back Total Depth 2585'			Packer 2528'	Set at - 2538'		and the second of the second o	
Casing Size 4.5"			Weig 10.5	ht	Internal I 4.052		Diameter		Set at 2600'		orations	То		
Tubing Size 2-3/8"			Weig 4.7	ht	Intern 1.99		Diameter		Set at 2546'		orations	То		
Type Completion (De Single - Gas						Type Flui	Type Fluid Production Water				Pump Unit or Traveling Plum Pump Unit - Rod		nger? Yes / No	
		(Anr	nulus / Tubir	ıg)			Carbon Diox	kide		% Nitro		Gas G	iravity -	G
Annulus	s										-		,	9
Vertical D	Depth(H))					Pre: Flar	ssure Taps				(Meter 3.5"	Run) (I	Prover) Size
Pressure	Buildup):	Shut in	8/	15 2	0 <u>/ 0</u> at		. (AM) (PM)	Taken	8/4	20	10 at 8:0	25	(AM) (PM)
Well on L	.ine:	\$	Started		2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)
							OBSERVI	ED SURFAC	E DATA			Duration of Shut	:-in _ <i>a</i>	74 Hours
Static / Ori		ice Circle one:			Pressure Differential	Flowing	Well Head		Casing		Tubing	Duration	11:00	id Dradused
Dynamic Property	Size (inche	- 1	Prover Pressure psig (Pm)		in	Temperature t	Temperature t	Wellhead Pressure (P _w) or (P ₁) or (P _c)		Wellhead Pressure (P _w) or (P ₁) or (P _c)		(Hours)	Liquid Produced (Barrels)	
		-			Inches H ₂ 0			psig	psia	psig psia				
Shut-In		_			!				12	·		24	↓	
Flow														
							FLOW ST	REAM ATTR	IBUTES					
Plate			Circle one:		Press	Grav	rity	Flowing	Dev	riation	Metered Flow	GOR		Flowing
Coeffiecient (F _b) (F _p) P			Meter or Prover Pressure		Extension	. Fact	J	Temperature Factor	Fa	actor	R	(Cubic Fe		Fluid Gravity
Mcfd			psia		✓ P _m xh			Fn		pv	(Mcfd)	Barrel)		G _m
				٠	1	(OPEN EL (OW) (DELIV	ERABILITY	CALCIII	ATIONS				
(P _c) ² =		:	(P _w) ² =	:	:	P _d = .) - 14.4) +		٠.	(P _a)	2 = 0.2 2 =	207
` '				Cho	ose formula 1 or 2:			-T -				(, q)		
(P _c) ² - (P _a) ²		(P	(P _c) ² - (P _w) ²		1. P _c ² P _a ²	LOG of formula		Backpressure Curve Slope = "n"		nxi	LOG		Open Flow Deliverability	
ог (Р _с)²- (F	o ^d) ₅			2	2. P _c ² · P _d ²	1. or 2. and divide	P _c ² -P _w ²	Ass	or signed	-		Antilog	Equals	s R x Antilog
				divid	ed by: $P_c^2 - P_w^2$	by:	<u> </u>	Standa	ard Slope				<u> </u>	(Mcfd)
						<u></u>								
												<u> </u>		
Open Flov	W				Mcfd @ 14.6	35 psia		Deliverab	ility		V	/lcfd @ 14.65 psi	а	
									thorized to	o make th	e above sepor	t and that he ha	s know	ledge of
the facts st	tated the	ereir	, and that sa	aid ı	report is true	and correct	. Executed	this the	_	day of <u>b</u>	D. I.	υ	,	20 <u>/ / .</u>
			Witness (fany	·)				Ja	nice	Kypll	Many mbany		ECEIVED
- Arrama da a arra	-		For Comm					_	U		Check	ed by	00	CT 1 4 2010
						,					1	•	KC	C WICHIT

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 f	oregoing pressure information and statements contained on this application form are true and
correct to the	pest of my knowledge and belief based upon available production summaries and lease records
of equipment i	nstallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby re	equest a one-year exemption from open flow testing for the Livingston 1
gas well on the	e grounds that said well:
(Ch	eck one)
	is a coalbed methane producer
Ţ	is cycled on plunger lift due to water
Ī	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 do cuello o co	
	gree to supply to the best of my ability any and all supporting documents deemed by Commissions to secretarity to secretarity the secretarity for supporting forms.
stair as neces	sary to corroborate this claim for exemption from testing.
ınlı	110
Date: <i> 0 </i>	/10
	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.