## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(	See Instruc	ctions on Rev	erse Side	e)				
Op	en Flow	,				Toot Deta	<u>.</u> .			A DI	No. 15			
Del	liverabil	lty				Jest Date	14				No. 15 - <b>2015</b> -00-0	0		
Company		erat	ing, Inc.					Lease Livingsto	on		<del>20646</del>	1A	Well Nu	ımber
County Hamilton	·····		Loca C NW			Section 16		TWP 23S	· · · · · · · · · · · · · · · · · · ·	RNG (EA	W)		Acres /	Attributed
Field Bradsha	w	-				Reservoir Winfield					nering Conne			
Completic 8/25/76	n Date	)	·			Plug Bac 3000'	k-Total-Der	oth		Packer-S	et at	,		<del></del>
Casing Si 4.5"	ze		Weig 10.5	ht		Internal D 4.052	Diameter	Set a 2552			rations )' - 2528'	То		
Tubing Si 2-3/8"	ZΘ		Weig 4.7	ht		Internal 0 1.995	Diameter	Set a 2533			ations 2' - 2562'	То		
Type Com Single -		(De	escribe)	•		Type Flui Water	d Production	on			it or Traveling Unit - Rod	Plunger? Yes	/ No	
Producing Annulus		(Anr	nulus / Tubir	ng)		% C	arbon Diox	kide	*	% Nitroge	en	Gas Gr	avity -	G <sub>g</sub>
Vertical D	epth(H)	)					Pre: Flar	ssure Taps				(Meter 2"	Run) (P	rover) Size
Pressure	Buildup	):	Shut in	4	-2 2	0/4 <sub>at</sub> _	8:00	_ (AM) (PM)	Taken	42	3	14 <sub>at</sub> 8.3	00	(AM) (PM)
Well on Li	ine:		Started		2	0 at	. <del>-</del>	_ (AM) (PM)	Taken		20	at		(AM) (PM)
			Circle one:		Dec		OBSERV	ED SURFACE		1		Duration of Shut-	in A	Hours
Static / Dynamic Property	Orific Size (inche		Meter Prover Press psig (Pm	ŝure	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	I Wallhaad I	Pressure	Weilhea	ubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)	1 .	id Produced Barrels)
Shut-In	.50	0						/	107.4	1 1	F-0.0	24		
Flow														
							FLOW ST	REAM ATTRI	BUTES					
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ent ,)		Circle one: Meter or ver Pressure psia		Press Extension P <sub>m</sub> xh	Grav Fac	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	riation actor = pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
							, , ,							
(P <sub>c</sub> ) <sup>2</sup> =		_:	` (P <sub>w</sub> )²	=_	:	(OPEN FLO		<b>VERABILITY)</b> _% (P.	CALCUL - 14.4) +		<b>,</b> :	(P <sub>a</sub> ) (P <sub>d</sub> )	1 <sup>2</sup> = 0.2	207
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	•	(P	(c)2 - (P <sub>w</sub> )2	Cho	ose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ fied by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpres Slop Ass	ssure Curve ee = "n" or signed ard Slope		.og [	Antilog	O De Equal	pen Flow liverability s R x Antilog (Mcfd)
Open Flow	<u> </u>				Mcfd @ 14.	65 neia		Deliverabi	lity			Mcfd @ 14.65 ps	ia	
						•				<del></del>				
					ehalf of the report is true			•	2	o make the	e above regor	t and that he ha	as know	ledge of 20 14.
			140.	<i>(</i> :£.						anic	e Ki	pley		Receive
	,		Witness	(II'an)	y) .					, i	For <b>⊈</b>	ompany . U	KANSA	S CORPORATION
		-	For Com	missio	on		<del></del>	-			Check	ked by		OCT 02

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 an correct to the best of my knowledge and belief based upon available production summaries and lease record 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 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 Commiss staff as necessary to corroborate this claim for exemption from testing.  Date: 9-3-14
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Date: 9-3-/4
Date:
Signature: () anich Kipley
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.

Received

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