KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: Open Flow			(See Instruc	tions on Rev	verse Side)				
Deliverabilty			Test Date	14				No. 15 -20150-00-0	0		
Company A Pera	ting, Inc.	,	1.0	<i>II</i>	Lease Livingsto	on			2	Veil Number	
County Hamilton	Location SW/4		Section 8		TWP 23S		RNG (E/ 40W	W)		Acres Attributed	
Field Bradshaw			Reservoir Winfield					nering Conne lidstream			
Completion Date 8/6/76			Plug Bac 2563'	k Total Dep	h		Packer S	et at			
Casing Size 4.5"	Weight 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		
	Completion (Describe)			Type Fluid Production Water			Pump Unit or Traveling Plung Plunger Lift			ger? Yes / No	
Producing Thru (An Tubing	nulus / Tubing)		% C	arbon Dioxi	de		% Nitroge		Gas Gra	avity - G _g	
Vertical Depth(H)			Pressure Taps						•	Run) (Prover) Size	
Pressure Buildup:	Pressure Buildup: Shut in4-220,			Flange <u>//4_{at} </u>			4-2	3	3.5" 14 _{at} 8:0	(AM) (PM)	
•	Started		at						at	•	
				OBSERVE	D SURFACE	E DATA			Duration of Shut-i	n_24_Hours	
Static / Orifice Dynamic Size Property (inches)	Prover Pressure in T		Flowing Temperature t	emperature Temperature		Casing Wellhead Pressure (P_w) or (P_l) or (P_c) psig psia		ubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In .625		2				70.8	psig	psia	24		
Flow				ч					¥		
				FLOW STR	EAM ATTR	IBUTES					
Plate Coefficient (F _b) (F _p) Mcfd Prover Pressure psia Circle one: Press Extension Prover Pressure psia		Fact	Gravity Te		Flowing Deviation Factor F ₁₁		Metered Flow R (Mcfd)	GOR (Cubic Fed Barrel)	Flowing Fluid Gravity G _m		
		,			į						
(P _c) ² =:	(P _w) ² =	:	(OPEN FLO		ERABILITY) % (P) CALCUL ² c - 14.4) +		· :	(P _a)² (P _d)²	? = 0.207 ? =	
	P _c) ² - (P _w) ²	2. P _c ² - P _d ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpres Slop Ass	ssure Curve be = "n" orsigned ard Slope		.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		·									
Open Flow		Mcfd @ 14.6	5 psia	•	Deliverabi	ility		. N	Vicfd @ 14.65 psi	a ·	
The undersigned		ehalf of the (Company, s		e is duly au		o make th		t and that he ha		
he facts stated there	in, and that said	report is true	and correct	t. Executed	this the	<u>5</u>	day of _	sepien	inhus	, 20 / / .	
	Witness (if an	y)			_	$\overline{}$	Janu	Fol Co	pany	Received KANSAS CORPORATION C	
	For Commissi	on			_	0		Check	ked by	OCT 0 2 2	

CONSERVATION DIVISION WICHITA, KS

exempt state and that the correct to the	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. e foregoing pressure information and statements contained on this application form are true and ne best of my knowledge and belief based upon available production summaries and lease records
l hereb	nt installation and/or upon type of completion or upon use being made of the gas well herein named. y request a one-year exemption from open flow testing for the Livingston 2
	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 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
	r agree to supply to the best of my ability any and all supporting documents deemed by Commission essary to corroborate this claim for exemption from testing.
Date:	1-3-14
	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.

Received

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