KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		•			(See Instruc	tions on Rev	rerse Side)				
□ Ор	en Flo	w											
De	liverab	ilty		-	Test Date	"14			API 071	No. 15 -20379 — <i>00</i>	000		
Company		erat	ing, Inc.			<i></i> '	Lease Sandifer	· A			· 1	Well Number	
County Greeley		Location C NW/4			Section 33		TWP 19S		RNG (E/W) 39W		Acres Attributed		
Field Bradsha	14				Reservoir Winfield					hering Conne idstream	ction		
Completion Date					Plug Back Total Depth 2891'				Packer S	et at	····		
11-1-85 Casing Size Weight					Internal Diameter			Set at		rations	To		
5.5 Tubing Size		14.0 Weight		<u>.</u>	5.012 Internal Diamete		2939' Set at		2819' Perforations		2827'		
2-3/8			4.7		1.995			2713'					
Type Con Single -			escribe)		Type Flui Water	d Production	n			nit or Traveling Unit - Rod	Plunger? Yes	/ No	
Producing	-	(Anr	nulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gra	avity - G	
Vertical D						Pres	sure Taps				(Meter F	Run) (Prover) Size	
				- 	111	Flan	ge				3"	· /b	
Pressure	Buildu	ip:	Shut in	5-21 ₂	0 / 4 at _	1.18	(AM) (PM)	Taken	500	<u>メ</u> 20 A	14 at 9:1	(AM) (PM)	
Well on L	ine:		Started	20) at		(AM) (PM)	Taken		20	at	(AM) (PM)	
a stallite	€a å				•	OBSERVE	D SURFACE	DATA	<u></u>	ļ	Duration of Shut-i	n_24_Hours	
Static / Dynamic	Orifi Siz	e	Circle one: Meter Prover Pressu	Pressure Differential	Flowing Temperature	Well Head Temperature	Casi Wellhead I (P,) or (P,	Pressure	Wellhe	Tubing ad Pressure (P ₁) or (P ₀)	Duration (Hours)	Liquid Produced (Barrels)	
Property	(inch	_	psig (P.m)	Inches H ₂ 0	- t	t	psig	psia	psig	psia			
Shut-In	.62	5					,	46	<u> </u>		24		
Flow						EI OW STE	REAM ATTRI	DIITEC	<u> </u>			<u> </u>	
Diete			Circle ona:					BUIE3	ļ			Flouring	
Plate Coefflecient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fac	tor	Flowing Temperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	et/ Flowing Fluid Gravity G _m	
		_						:			· · ·		
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	.ATIONS	•	(P.)2	²= 0.207	
(P _c) ² =		<u>_:</u> _	(P _w) ² =	:	_ P _d =		% (P	_o - 14.4) +	14.4 =	:	(P _a) ²		
(P _c) ² - (F or (P _c) ² - (F	-	(F	P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ fivided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P.2. P.2	Slop Ass	sure Curve e = "n" or signed ard Slope	l n x i	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
-													
O Fl				N-44 @ 44	<u> </u>		Dalla anabi				1-td @ 14 FF		
Open Flor		-		Mcfd @ 14.			Deliverabi				//dd @ 14.65 psi		
		_	-	behalf of the				ろ ん	o make the	lugu	t and that he ha	s knowledge of, 20	
-			Witness (if	any)	· K	Re ANSAS CORPO	ceived PRATION COMMI	SSION	1	ForCi	omflåny		
		_~-	ForCommi	ssion		4	OOMINI	COLON C	<u> </u>	Check	ked by		

AUG 2 9 2014

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	at the foregoing pressure information and statements contained on this application form are true and
of equip	to the best of my knowledge and belief based upon available production summaries and lease records oment installation and/or upon type of completion or upon use being made of the gas well herein named. Pereby request a one-year exemption from open flow testing for the Sandifer A #1
	I on the grounds that said well:
staff as	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 rther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing. 8-36-14
	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.