KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t :				(See Instructi	ions on Reve	rse Side)					
	en Flo liverat				Test Date	-14			API 15-	No. 15 -071-20752	- 0000			
Company	hoe	Оре	erating, Inc		<u> </u>		Lease Sandife			<i>.</i> ·	2	Well Nu	mber	
County S/2 SWNE			on E	Section 33		TWP 19S		RNG (E/W)- 39W		:	Acres A	ttributed		
Field Bradsh	aw				Reservoir Winfiel					hering Conne idstream	etion			
Completion 5-15-20		te			Plug Bac 2850	k Total Dept	h		Packer S	Set at				
Casing Size Weight 4.5 10.5			it	Internal Diameter 4.052		Set at 2852		Perforations 2816-28		То		_		
• •		Weigh 4.7	ht Intérnal E 2.000		2842			Perforations		То				
Type Con Single-C	Gas				Type Fluid Water	Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit					
			ulus / Tubing	g)	% C	arbon Dioxid	le		% Nitrog	en	Gas G	ravity - G	i _o	
Vertical D							sure Taps						rover) Size	
Pressure	Buildu	p:	Shut in	6-25 2	0/4at_	7:54	(AM) (PM) T	aken	6-	26_20.	14 _{at} 7.	540	AM) (PM)	
Well on L	ine:	,	Started		0 at		(AM) (PM) T	aken		20	at	(AM) (PM)	
¥, ; *-				·		OBSERVE	SURFACE	DATA	_		Duration of Shut	in A	4 Hours	
Static / Orifi Oynamic Siz Property (inch		Meter		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Welthead Pressure (P _w) or (P ₁) or (P _a) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	1.6	00					, , , , , , , , , , , , , , , , , , ,	50			24			
Flow														
				 -		FLOW STR	EAM ATTRIE	UTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Citale one: Meter or Prover Pressure psia		Press Extension	tension Fact		or Temperature		riation actor _{pv}	Metered Flow R (Mcfd)	GOR (Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
<u> </u>			-					<u> </u>			<u> </u>			
(P _c) ² =		_;	(P _w)≥=	.;	(OPEN FLO	OW) (DELIVI	ERABILITY) (6 (P,	CALCUI - 14.4) +		<u>.</u> :) ² = 0.2	07~	
(P _c) ² - (I or (P _c) ² - (I	- }	(P) _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpress Stope 	:= "n" f gned	9 n x	LOG	Antilog	Deti Equals	en Flow verability R x Antilog Mcfd)	
				· · · · · · · · · · · · · · · · · · ·			<u> </u>					 		
Open Flo				Mcfd @ 14.	65 psia	-	Deliverabili	ity			Mcfd @ 14.65 p	sia		
				n behalf of the				norized (day of _	he appve repo	rt and that he h	as know	ledge of	
_			Witness (i	<u>. </u>		KAMAMARANA	Mariended -			For C	compality eked by			
			. D. CO((E))		•	- ABONDAPPACE	RPURATION OF THE	NO((SERVEN		C. (1GL				

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5€ 2× ×	• •
	r the laws of the state of Kansas that I am authorized to request n behalf of the operator Horseshoe Operating, Inc.
and that the foregoing pressure information correct to the best of my knowledge and beli of equipment installation and/or upon type of I hereby request a one-year exemption for	n and statements contained on this application form are true and ief based upon available production summaries and lease records from open flow testing for the Sandifer #2
is on vacuum at the prese	
I further agree to supply to the best of m staff as necessary to corroborate this claim	ny ability any and all supporting documents deemed by Commission for exemption from testing.
Date:8-26-14	ignature:

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.

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