KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				6	See Instructi	ions on Reve	rse Side)				
Op	oen Flo	w			Test Date	.,			ΔPI	No. 15			
De	eliverab	ilty			Test Date	73				-071-20753	3 ~ 0 000		
Company Horseshoe Operating, Inc.					1 0/ 1	Lease Kuttler G						Well Number	
County Location				ion	Section			TWP		/W)	Acres Attributed		
Greele	у _	5W	NW NE	SW	3		198	,	39W				
Field Bradshaw				1	Winfield					thering Conne Midstream			
Completi 6-2-200		е			Plug Bac 2850	k Total Dept	h		Packer \$	Set at			
Casing Size 4.5			Weight 10.5		Internal Diameter 4.052		Set at 2851		Perforations 2810		то 282 6		
Tubing S 2.375	Tubing Size			it	Internal E	Diameter	Set at 2835		Perforations		To		
Type Cor Single		ı (De	4.7 escribe)		Type Flui	Type Fluid Production Water				nit or Traveling	Plunger? Yes	inger? Yes / No	
		(Anr	nulus / Tubino	n)		arbon Dioxid	de	4		jen	Gas Gravity - G		
Casing	9	(,		3)	,, ,	% Carbon Dioxide				•			
Vertical E	Depth(H	l)				Press	sure Taps				(Meter F	Run) (Prover) Size	
						Flang						<u>,</u>	
Pressure	Buildu	p; ;	Shut in	<u>1-23</u> 2	0/3 at _	8:45	(AM) (PM) 1	aken		24 20	13at 8,4	M (PM)	
Well on L	.ine:	;	Started	2	0 at		(AM) (PM) 1	aken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24 Hours	
Static /	Orifi	ce	Circle one: Meter	Pressure Differential	Flowing	Well Head	Casin Wellhead P	_		Tubing ead Pressure	Duration	Liquid Produced	
Dynamic Property	Siz (Inch		Prover Press	in in	Temperature t	Temperature t	(P _w) or (P _t)			or (P _t) or (P _c)	(Hours)	(Barrels)	
Shut-In	.62		psig (Pm)	Inches H ₂ 0			psig	90	psig	psia	24		
Flow								<i>,</i>					
l	L				ļ	FLOW STR	EAM ATTRIE	BUTES	.!				
Plate	,]		Circle one:	Press			Flowing	1			500	Flowing	
Coeffiecient		P	Meter ot ver Pressure	Extension	Extension Fact		emperature F		viation Metered Flow factor R		v GOR (Cubic Fe	et/ Fluid Gravity	
(F _b) (F _p) Pro		Pro	psia	√ P _m xh	F,	ı	Factor F ₁₁		F _{pv} (Mcfd)		Barrel)	G _m	
	1												
<u> </u>					CODEN EL	OW OF IV	ERABILITY)	CAL CILL	ATIONS	<u> </u>	.		
(P _c) ² =		_:	(P _w) ² =	<u> </u>	P _d =			- 14.4) +		:	(P _a)	² = 0.207 ² =	
			N2 45 N2	Choose formula 1 or 2	LOG of	$\overline{\Gamma}$	Backpressure Curve		/e · []		Open Flor		
or		(P _c) ² - (P _w) ²		1. P _c ² -P _a ²	formula 1. or 2.	formula		Slope = "n"		LOG	Antilog	Deliverability	
(P _c) ² - (I	P _d) ²			2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	and divide	P _c ² - P _w ²	Assi Standa	gned d Slope				Equals R x Antilog (Mcfd)	
				andouby. To Tw	1				_				
-							 		-				
							<u> </u>	<u>-</u>					
Open Flow				Mcfd @ 14.		Deliverability				Mcfd @ 14.65 psia			
The e	undersi	gned	authority, o	n behalf of the	Company, s	tates that h	e is duly aut	horized t	to make 1	he a lg ove repo	ort and that he ha	s knowledge of	
the facts s	tated th	nore î	n and that e	aid report is true	and correc	Evecuted	thic the	3	day of	apri	L .	.20 L3	
,			., while the St			Excounsu				, 1	7 //-		
									ance	UL	pley		
			Witness (i	f any)				0		Fdr	Coprinpany (
			For Comm	rission	к		RECEIVED	MISSION	 1	Che	cked by		

APR 1 1 2013

CONSERVATION DIVISION WICHITA, KS

exemp	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request t status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	to the best of my knowledge and belief based upon available production summaries and lease records
of equi	oment installation and/or upon type of completion or upon use being made of the gas well herein named. ereby request a one-year exemption from open flow testing for the Kuttler G
	ll on the grounds that said well:
	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.
Date:	4-3-13 Signature: Janice Ripley 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.