KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Te	est:						(See Instru	uctions on R	everse Sid	de)				
	Open I	Flow										•-		
Deliverability					Test Da		API No. 15 15-071-20036 - 00-00							
Compa	DV					2-2-	10	<u>-</u>	 -	1:	5-0/1-2003	6 - 00-00		
Company Horseshoe Operating, Inc.						Lease Thom	Thompson			1	Well I	Number		
County Greeley			Location C SW			Section 31		TWP 20S		RNG (E/W)			Acres 640	Attributed
Field Bradshaw						Reservoir Chase				Gas Gathering Conn		ection .		
Complete 5/13/7		ate				Plug Ba 2789	ck Total De	pth			Set at			
Casing :	Size		Weight 9.5			Internal 4.09	Diameter	Set at 2788		Perforations 2772		то 2784		<u> </u>
Tubing Size 2.375			Weight 4.7		Internal 1.995		Diameter	Set :	tat Per		orations	То		- · ·
Type Co Single	mpleti Gas	on (C	lescribe)			Type Flu Water	id Production		<u> </u>	Pump L	Init or Traveling	Plunger? (Yes	√ No	
Producin	g Thr	и (Ап	nulus / Tu	bing)		% (Carbon Diox	ride		% Nitro	moine C	Unit - Ro	<u> </u>	G
Annulu	-		_							,,,,,,,	95	Gas Gi	avily -	G,
Vertical E 3030	Depth((H)						ssure Taps	<u> </u>			(Meter	Run) (f	rover) Size
Pressure	Build	up:	Shut in _	-	2-1	20/2 at _	9;15	(AM) (PM)	Taken	2	-2 ₂₀	12 at 9:1	15 i	(AM) (PM)
Well on L	Jne:		Started		2	0 at		_				at		(AM) (PM)
			Circle on				OBSERVE	D SURFACE	DATA			Duration of Shut-	in <u>á</u>	74 Hours
Dynamic S		ice re res)	Metal Prover Pre psig (Pr	ssur o	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _w) or (P _t) or (P _t)		Tubing Wellhead Pressure $(P_u) \propto (P_t) \propto (P_a)$		Duration (Hours)	Liquid Produced (Barrels)	
Shut-tn								psig 82	psta	psig	psta	24	\vdash	
Flow													\vdash	
		_					FLOW STR	EAM ATTRI	BUTES	L		···	L	
Plate			Clicle one;		Press			Flowing	Τ					T
Coeffiecient (F _b) (F _p) Motd		Meter or Prover Pressure psia		Extension		Grav Facto		emperature Factor	Fac	ation ctor	Matered Flow R (Mcfd)	GOR (Cubic Fee Barrel)	eV	Flowing Fluid Gravity
				-		 		, (t					G.,	
						(OPEN FLO	\- W) (DELIVE	ERABILITY)	CALCUL	ATIONS				L
P _e) ² =		<u>.</u> :_	(P _w)²	=	:	P _a = _	%		- 14.4) +		:	(P _a)² (P _a)²	= 0.2	07
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		(P _e) ² - (P _w) ²		Choose famula 1 ara 1. P. 2. P. 2 2. P. 2. P. 2		LOG of formuta 1. or 2.		Backpressure Curve Slope = "n"				Antilog	Open Flow Deliverability Equals R x Antilog	
	+			dMde	dby: P.2 - P.2	and divide by:	P's-b's	Standar		-			-	Mcfd)
	\dashv									 			 -	
pen Flow		Mcfd @ 14.				65 psia		Deliverability		Mcfd @ 14.65 psia				
The un-	dersig	ned a	authority. c	n bel	naif of the C	ompany ete	tes that he	ie dubi sust	mriend 4-	males of		and that he has		
acts stat	ed the	erein,	and that s	aid re	port is true a	and correct.	Executed th	nis the	/_	make in	apove report	and that he has		edge of 2 .
										4	10.	Maria	-	
······································			Witness (if arry)			ECEIVE	ED —	T	MIC	For Con	mperly (
			For Corner	ission		A	PR-1-8 2	2012 —			Checke	ed by		

KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request 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 and
correct to the best of my knowledge and belief based upon available production summaries and lease records 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 theThompson 1
gas well 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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 4/16/12
Signature: Janice Ripley Title: Hoduction 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.