KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:						(See Instruc	ctions on Re	verse Side	e)					
Open F					9-//-/	e: 2				1 No. 15 - 075-2066	70000			
Company Horseshoe Operating, Inc.					· / / · / ·	<u></u>	Lease Muncie	Lease Muncie			Well Number			
County Location Hamilton 1320 FNL 1320 FWL				Section 8		TWP 23S			RNG (E/W) 40W		Acres Attributed			
Field Bradshaw				Reservoi Winfie				Gas Ga	thering Conn lidstream	ection				
Completion Date 5-21-1998				Plug Bac	k Total Dep	th	Packer Set at		Set at					
asing Size					Internal I 4.090	Diameter	Set at 2615		Perforations 2565		то 2581			
ubing Size Weight375 4.7				Internal I 1.995	Diameter	Set at 2590		Perforations		То				
Type Completion (Describe) Single gas				Type Flui Water	d Productio	n	Pump Unit or Traveli		nit or Traveling	ng Plunger? Yes / No				
Producing Thru (Annulus / Tubing) Casing				% C	Carbon Dioxi	ide	% Nitro		litrogen Gas		Gravity - G _g			
ertical Depth(H)				Pressure Taps Flange					····	(Meter	(Meter Run) (Prover) Size			
essure Buildi	ıp:	Shut in	9	-10 2	0/2 at _		(AM) (AM)	Taken	9-11	/ 20,	12 at 2.	00	AM) (PM)	
ell on Line:		Started		2	0 at		(AM) (PM)	Taken			at		AM) (PM)	
						OBSERVE	D SURFACE		1		Duration of Shut	-in	Hours	
tatic / Oritionamic Size	ze	Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	ature Welthead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _t) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
hut-In .75	50						psig	65	paig	psia	24			
Flow		<u>-</u>					il				,			
						FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or rover Pressure psia		Press Grav Extension Fact ✓ P _m ×h F _q		or Temperature		Fa	iation ictor pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
									,					
² =		(P _w) ²	=	:	(OPEN FLC		ERABILITY)	CALCUL - 14.4) +		:	(P _a)	² = 0.20	07	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$	(P _c)² - (P _w)²		1 2	es formula 1 or 2: P ₂ ² - P ₂ ² P ₂ ² - P ₂ ² ed by: P ₂ ² - P ₂ ²	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Slop	sure Curve e = "n" or	. a x l	.og	Antilog	Op Deli Equals	Open Flow Deliverability quals R x Antilog (Mcfd)	
en Flow				Mcfd @ 14.6	5 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia		
The undersi								Q	o make th	e aboye reco	rt and that he ha	s knowl	edge of	
									inice	Rio	lees	R	ECEIVE	
		Witness								or C	ompany	00	T 1 1 20	
		For Comr	nission	ı						Chec	ked by	KCC	WICH	

l dealare unde	er penalty of perjury under the laws of the state of Kansas that I am authorized to request								
exempt status und	er Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.								
and that the foreg	oing 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 the									
	ounds 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								
	to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.								
Date: <u>/0-8-/</u>	<u>2</u>								
۴	Signature: <u>Janice Ripley</u> Title: <u>Production</u> Assistant								

Instructions:

THEF TENTS

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.