KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Insti	ructio	ons on Rev	erse Side)					
Open Flo	w			Test Date); .				API	No. 15				
Deliverat	ilty			9-9-1	<u> </u>				15-	075-20667	70000			
Company Horseshoe	Оре	rating, Inc).				Lease Muncie	!				¹ 1	Well Nu	mber
County Location Hamilton 1320 FNL 1320 FWL				Section 8			TWP 23S		RNG (E/W) 40W			ı	Acres A	attributed
· · · · · · · · · · · · · · · · · · ·				Reservoir Winfiel	leservoir Vinfield				Gas Gathering Connection DCP Midstream					
Completion Date 5-21-1998				Plug Bac	Plug Back Total Depth				Packer Set at					
Casing Size				Internal Diameter 4.090			Set at 2615		Perforations 2565		то 2581			
ubing Size	bing Size Weight			Internal Diameter 1.995			Set at 2590		Perforations		•	То		
Type Completion (Describe) Typ				Type Flui	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No					
roducing Thru Casing	(Anr	nulus / Tubing	g)	% C	arbon D	ioxid	6	•	% Nitrog	en	<u> </u>	Gas Gr	avity - C	3,
Vertical Depth(H) 2573						Pressure Taps Flange				(Meter Run) (Prover) Size				rover) Size
Pressure Buildu	ıp: {	Shut in	9-8 2	0 // at _		_		Taken	9-	920	<u>//</u> at	2:0	00 (АМ)(РМ)
Vell on Line:	;	Started	20	0 at		((AM) (PM)	Taken		20	at		((AM) (PM)
					OBSEF	WED	SURFACE	Z DATA			Duratio	n of Shut-	in	34 Hours
ynamic Siz	Orlfice Gircle of Mete Size Prover Proinches)		1	Flowing Temperature t	emperature Temperature		(P_{μ}) or (P_{t}) or (P_{e})		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Ouration (Hours)		Liquid Produced (Barrels)	
Shut-tn . 73	50	psig (Pm)	Inches H ₂ 0				psig	65	psig	psia	2	24		
Flow												•		
			· ••• · · · · · · · · · · · · · · · · ·		FLOW S	STRE	EAM ATTR	BUTES						
Plate Coefficcient (F _b) (F _g) McId	Circle one: Meter or Prover Pressure psia		Press Extension √ P _m x h	Extension Fact		or Temper		Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Feet Barrel)		Flowing Fluid Gravity G _m
			<u> </u>	(OPEN EL	OW) (DE	I IVE	RABILITY	CALCIII	ATIONS					
°c)² =	_:_	(P _w) ² =		P _a ≃		%		- 14.4) +		<u> </u>	,	(P _s)	$r^2 = 0.2$	
$(P_e)^2 - (P_g)^2$ or $(P_e)^2 - (P_g)^2$	(P ₀) ² - (P _w) ²		1. P _e ² -P _e ² 2. P _e ² -P _e ² attribut by: P _e ² -P _e ²	LOG of formula 1, or 2. and divide	formula 1, or 2. and divide p.2., p.:		Backpressure Slope = "r		- n x	rog	Ar	Antilog Dell Equals		pen Flow iverability R x Antilog (Mcfd)
Open Flow			Mcfd @ 14.	65 osia			Deliverab	ility	}		Mcfd @	14.65 ps	ia	
The unders		-	n behalf of the	Company, s			is duly au		to make ti	ne above repr		· ·		rledge of
		Witness (ii	f any)				-		ani	ce Ri	ple	y		RECEIVE
		For Comm	ission			-	_			Che	cked by		0	RECEIVE CT 2 1 2

exempt sta and that it correct to of equipme I herel	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named. By request a one-year exemption from open flow testing for the Muncie #1 In the grounds that said well:
gas well of	(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
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission cessary to corroborate this claim for exemption from testing. $\frac{9-18-11}{2}$
	Signature: <u>Anicl Ripley</u> Title: <u>Production</u> 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.