KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruc	tions on Re	verse Side	9)				
Open	Flow			Test Date	۵٠			- APi	No. 15			
Delive	erabilty			9-11-1	13				075-20667	0000		
Company Horsesho	е Оре	erating, In	ic.			Lease Munc ie	е			1	Well Number	
County Hamilton		Loca 1320 F	ition FNL 1320 FWL	Section 8		TWP 23S	,	RNG (E/1	W)		Acres Attributed	
_{Field} Bradshaw	v			Reservoi Winfie					nering Conne idstream	ection		
Completion [5-21-1998				Plug Bac	k Total Dep	th		Packer S	et at	:		
Casing Size 4.5		Weig 10.5		Internal I 4.090	Diameter	Set at 2615		Perforations 2565		то 2581		
Tubing Size 2.375		Weig 4.7	ght	Internal I	Diameter	Set at 2590		Perforations		То		
Type Comple Single gas		escribe)		Type Flui Water	d Productio	n		Pump Un	it or Traveling	Plunger? Yes	/ No	
Producing The		nulus / Tubi	ng)	% (Carbon Diox	ide	· ·	% Nitroge	en	Gas Gra	avity - G _g	
Vertical Dept	th(H)				Pres Flan	sure Taps				(Meter F	Run) (Prover) Size	
Pressure Bui	ildup:	Shut in	9-10	₂₀ /3 _{at} _		(AM) (PM)	Taken	9-11	/20 .	13 _{at} 21	00 (AM) (PM)	
Well on Line:	:	Started				(AM) (PM)	Taken			at	$\overline{}$	
		,			OBSERVE	D SURFAC	E DATA	.,		Duration of Shut-	in <u>24</u> Hour	
Dynamic	Orifice Size Inches)	meter Differential Prover Pressure in		lemperature	Temperature Temperature		e Wellhead Pressure (P _w) or (P _t) or (P _c)		ubing ad Pressure (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	150	psig (Pm) Inches H ₂ 0	<u> </u>		psig	psia 66	psig	psia	24		
Flow												
					FLOW STE	REAM ATTE	RIBUTES				•	
Plate Coefficcient (F _b) (F _p) Mcfd	Coefficient Meter or (F _b) (F _c) Prover Pressure		Press Extension ✓ P _m x h	Grav Fac	tor	Flowing Temperature Factor F _{ft}		viation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravitu	
					- 4							
				(OPEN FL	OW) (DELIV	ERABILITY	/) CALCUI	ATIONS	:	(P _a)	$r^2 = 0.207$	
P _c) ² =	_ :	(P _w) ²	Choose farmula 1 or	P _d ==		% (P _c - 14.4) +	14.4 =	:	(P _d)) ² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(Р	' _c)² - (P _w)²	1. P _c ² • P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slo As	essure Curve ope = "n" or ssigned dard Slope	nxl	.oo [] ao.	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
						<u> </u>	· ·		· · · · · ·			
					;							
pen Flow			Mcfd @ 14	1.65 psia	•	Deliveral	bility	·	1	Mcfd @ 14.65 ps	ia	
			on behalf of the		,		uthorized $\frac{1}{9}$	to make the	e above repo	rt and that he ha	as knowledge of	
in the stand		The A. The	er en	o and consc	Executed	. aus (116 - <u>-</u>		Jana	ice K	iples	- KCC WI	
		Witness		······································		• -		0	For C	ompany		
		For Com	mission			-			Chec	ked by	NOV 2 1	
											RECE	

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	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the fore	going pressure information and statements contained on this application form are true and
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records
	allation and/or upon type of completion or upon use being made of the gas well herein named.
l hereby requ	lest a one-year exemption from open flow testing for the Muncie #1
gas well on the g	rounds that said well:
(Check	(cone)
	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 agre	e to supply to the best of my ability any and all supporting documents deemed by Commissic
	e to supply to the best of my ability any and all supporting documents deemed by Commissic y to corroborate this claim for exemption from testing.
taff as necessar	y to corroborate this claim for exemption from testing.
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taff as necessar	y to corroborate this claim for exemption from testing. 13 Signature: Amuel Riply And 101 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.