Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	:				(See Instruc	ctions on Re	everse Sid	le)					
	en Flow			Test Date	e			API	l No. 15				
Deliverabilty				9-77-	14				5- 20652-00	-00			
Company Horsesh		ating, Inc.	·	•	Lease Lesser			,	1	Well Number	_		
County Location Hamilton C NE/4			Section 23		TWP 21S			RNG (E/W) 41W		Acres Attributed	t		
Field Bradshaw				Reservoi Winfield			Gas Gathering Conr Oneok		•	ection			
Completion Date 12/4/97				Plug Bac 2827	k Total Dep	oth	Packer Set at				~-		
Casing Si 4.5	Casing Size Weight .5 10.5			Internal I	Diameter		Set at 2830		Perforations 2774		- Control - Cont		
Tubing Size Weight 2,375			Internal I	Diameter		Set at 2752		Perforations					
Type Completion (Describe) Single				Type Flui Water	d Productio		Pump Unit or Traveling F Pump Unit - Rod		Plunger? Yes / No				
Producing Thru (Annulus / Tubing) Annulus					Carbon Diox	ride	% Nitrogen		Gas Gravity - G _g				
Vertical Depth(H)				-	Pressure Taps Flange						(Meter Run) (Prover) Size 2"		
Pressure	Buildup:	Shut in	9-10_2	014 at			Taken	9-1	<u>/</u>	14 at 10;5	50 (AM) (PM	 1)	
Well on Le	ne:					$\overline{}$				at	(AM) (PM	1)	
					OBSERVE	ED SURFAC	E DATA			Duration of Shut-	in_24 Ho	ours	
Static / Dynamic Property	Orifice Size (inches)	Size Meter Differential		Flowing Well Head Temperature t t		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produce (Barrels)	:d	
Shut-In	.625					psig	50	psig	psia	24			
Flow													
Plate		Circle one			FLOW STE	REAM ATTR	BUTES				F1		
Coefficate (F _b) (F _F Mcfd		Meter or rover Pressure psia	Press Extension √ P _m x h	Grav Fac F	or Temperature		Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravet	`	
						/ERABILITY			•		² = 0.207	_	
$(P_{o})^{2} = $: $(P_{w})^{2} = $ Choose formula 1 o.			Choose formula 1 or 2	$P_d =$			(P _c - 14.4) + 14 4 =:			(P _d) ² =			
(P _c) ² - (P or (P _c) ² - (P	1	(P _c) ² - (P _w) ² 1 P _c ² - 2. P _c ² - divided by F		LOG of formula 1 or 2 and divide p2_p2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x lOG		Antilog	Open Flow Deliverability Equals R x Antil (Mcfd)		
						,							
Onc. 71-	Onon Flow		25 -			Dallimanhille		Mattle adder					
Open Flow			Mcfd @ 14.0			Deliverab		 _		Vlcfd @ 14.65 psi		_	
			n behalf of the				,	o make the	Detail	rt and that he ha	s knowledge of	_	
	<u>-</u>	Witness (if	anv)			_		anic		elly	Rece	ived	
						_		/ 			KANSAS CORPORAT		
		For Comm	ssion			, –			Chec	ked by	nct n	3 20	

I declare under penalty of perjury under the laws of the state of Kanşas 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 the Lesser #1 gas well on the grounds 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
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:
Date:
Signature:

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.F. 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.