KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Insti	ructions on Re	verse Side	·)				
Open F	low			Test Dat	e:	•		API	No. 15			
Deliver	abilty			9-11	-13	••	· 		-2070 9 -00-0	0		
ompany orseshoe (Operating, I	nc.				Lease Mai		•		1	Well No	umber
ounty amilton		Location NE	n	Section 8		TWP 23S		RNG (EA 41W	W)		Acres 640	Attributed
eld radshaw				Reservo Winfield				Gas Gath Oneok	ering Conne	ection		
ompletion D 1-20-1999	ate			Plug Bac 2608	ck Total D	epth		Packer So None	et at			
asing Size 5		Weight 10.5		Internal 4.052	Diameter	Set : 260		Perfor 2506	ations 5-17;42-49	то 2554	-56;61	-69
ubing Size .375		Weight 1.7		Internal 1.995	Diameter	Set 8 266		Perfor	ations	То		
pe Completi	ion (Describe S)		Type Flu Water	id Produc	tion			t or Traveling Jnit - Rod	Plunger? Yes	/ No	
roducing Thr	u (Annulus /	Tubing)	<u> </u>	% (Carbon Di	oxide		% Nitroge	en	Gas G	iravity - (G _g
ertical Depth	(H)		· · · · · · · · · · · · · · · · · · ·			ressure Taps ange				(Meter	Run) (P	rover) Size
	· · · · · ·		7-10	12	9.30	ange		0-1	/	3 at 9.	マハ	
						_					•	(AM) (PM)
ell on Line:	Started		20	0 at		(AM) (PM)	Taken	<u> </u>	20	at		(AM) (PM)
					OBSER	VED SURFAC	E DATA			Duration of Shu	t-in_	74_Hours
namic Si	amic Size Meter Differential		Flowing Well Head Temperature t t		Wellhead	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _o)		Duration Liquid Produ (Hours) (Barrels)		
	50 psig	(Pm)	Inches H ₂ 0			psig	psia 70	psig	psia	24		
Flow							70				+	
			 		FLOW S	TREAM ATTR	BUTES		<u>-t, </u>			
Plate Coeffiecient (F _b) (F _p) Mcfd	Circle one Meter of Prover Pres psia	.	Press Extension P _m xh	Grav Fact F	tor	Flowing Temperature Factor F ₁₁	Devia Fac F _p	tor	Metered Flow , R (Mcfd)	GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m
						 	<u> </u>					
)2 =	: (1	P _w) ² =	<u> </u>	(OPEN FLO		IVERABILITY) _% (P	CALCULA 2 - 14.4) + 1		<u>.</u> :) ² = 0.2) ² =	07
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P _c)² - (P _w	2	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slop Ass	ssure Curve e = "n" or igned ard Slope	n x LC	og [Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)
·											-	
en Flow			Mass S 445		•.				<u> </u>		<u> </u>	
			Mcfd @ 14.6			Deliverabi				cfd @ 14.65 ps		
			ehalf of the (report is true				thorized to $/9$	make the	above report	and that he ha	as. knowl	edge of
•	and the section	nad Li Justini						1000	O. R	olon	K	CC WIC
	Wil	ness (if any)	<u> </u>				will	For Cor	ypany ,	A	10V 2 1
4							//		,	•	87	WIIV / !

	jury under the laws of the state of Kansas that I am authorized to request 2-3-304 on behalf of the operator Horseshoe Operating, Inc.
· ·	oformation and statements contained on this application form are true and
	e and belief based upon available production summaries and lease records
	on type of completion or upon use being made of the gas well herein named.
	remption from open flow testing for the Mai 1
gas well on the grounds that said w	veli:
(Check one)	
· .	About a musellus au
is a coalbed me	
	nger lift due to water
	atural gas for injection into an oil reservoir undergoing ER
is on vacuum at	the present time; KCC approval Docket No
	
is not capable o	f producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the	
I further agree to supply to the staff as necessary to corroborate the	f producing at a daily rate in excess of 250 mcf/D best of my ability any and all supporting documents deemed by Commissio
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I further agree to supply to the staff as necessary to corroborate the	f producing at a daily rate in excess of 250 mcf/D best of my ability any and all supporting documents deemed by Commission his claim for exemption from testing. Signature:
I further agree to supply to the	f producing at a daily rate in excess of 250 mcf/D best of my ability any and all supporting documents deemed by Commission his claim for exemption from testing.
I further agree to supply to the staff as necessary to corroborate the	f producing at a daily rate in excess of 250 mcf/D best of my ability any and all supporting documents deemed by Commission his claim for exemption from testing. Signature:

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.