KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:	•		. ((See Instruc	tions on Reve	erse Side	e)				
Ope	en Flow			Toot Date	••		_	ADI	No. 15			
Deliverabilty				5-22	Test Date: 5-22-12			API No. 15 075-20145 - 🗢 - 🗢				
Company Horsesho	oe Opera	ating, Inc.		·		Lease Henry				1	Well Number	
County Hamilton	··	Locatio SW/4	on	Section 15		TWP 23S		RNG (E/\ 40W	N)		Acres Attributed	
Field:					Reservoir Winfield		Gas Gathering DCP Midstrea			ection		
Completio 4-9-76	n Date	dente (om entre oppen gripe en proprie digente de la lacense entre de la lacense entre de la lacense entre de l		Plug Bac 2562'.	k Total Dept	th		Packer S	et at			
Casing Siz	ze	Weight 10.5		Internal (4.052	Diameter	Set at 2570		Perfor 2486	ations	To 2496'	<u> </u>	
Tubing Size Weight 2-3/8 4.7		Internal Diameter 2.000		Set at Perf 2508'		Perfor	ations	То				
Type Com Single -		escribe)		Type Flui Water	d Production	n			it or Traveling Unit - Rod	Plunger? Yes	/ No	
	Thru (Ar	nulus / Tubing)	% C	Carbon Dioxi	de		% Nitroge	en -	Gas Gr	avity - G _g	
Vertical De		:		Pressure Taps Flange					(Meter	Run) (Prover) Size		
Pressure E	Buildup:	Shut in	5-21 2	0/2 at _			aken	5-2	2 20/	12 at 7:5	3 (AN) (PM)	
Well on Lir	ne:	Started								at		
76 os - 115 m s	ii.			***************************************	OBSERVE	D SURFACE	DATA			Duration of Shut-	in <u>24</u> Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casin Wellhead P (P _w) or (P _t)	ressure or (P _c)	Wellhea (P _w) or	ubing d Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	625		2			psig	66	psig	psia	24		
Flow												
					FLOW STR	EAM ATTRIE	UTES					
Plate Coeffiecie (F _b) (F _p Mcfd		Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fact F	tor T	Flowing emperature Factor F _{II}		iation ctor : pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Gravity	
		<u> </u>		(OPEN FLO	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS		(P)	²= 0.207	
(P _c) ² =	:	(P _w) ² =_	<u> </u>	P _d =		% (Р _с	- 14.4) +	14.4 =	<u> </u>	(P _d)		
(P _c) ² - (P _t or (P _c) ² - (P _c	- 1	P _c)² - (P _w)²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ 2. $P_c^2 - P_d^2$ ivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpress Slope 	= "n" r jned	nxL	og 📗	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
<u> </u>					· · · · · · · · · · · · · · · · · · ·		· · · · · ·	-				
Open Flow	·l !		Mcfd @ 14.6	l 35 psia		Deliverabili	ty	<u>.</u>		// // // // // // // // // // // // //	ia	
	_	d authority, on				this the 2	6	o make the	June	t and that he ha	s knowledge of , 20 12.	
		Witness (if a	any)		JUL 0	5 2012		Jane	For C	mpany		
		For Commis	sion		KCC W	ICHITA			Check	ked by		

	eg e			
I declare unde	-	der the laws of the sta	te of Kansas that I am au	ithorized to request
			tor Horseshoe Operating,	•
			ntained on this application	
			able production summarie	•
	the second secon	-	use being made of the gas	
	est a one-year exemption			weii nerein named.
		i irom open now tesun	g for the	
gas well on the gro	ounds that said well:			
(Check	one)	e G		
	is a coalbed methane p	roducer		•
	is cycled on plunger lift			
			oil reservoir undergoing E	:R
	is on vacuum at the pre	4		
7	is not capable of produc		•	•
ب		·		
I further agree	to supply to the best of	my ability any and all	supporting documents de	emed by Commission
	to corroborate this clair			, communication
·		•		
Date: 6-26	-12			
Date: U & W	700	•		
	,	a. Our	ico Pinlon	
	Ş	Signature:	in princip	
		Title: Production	n 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.