KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instru	ctions on Re	verse Side))					
Op	en Flow			Test Date	3 -			ΔΡΙΙ	No. 15				
Deliverabilty 4				4-3-7	1-3-14			API No. 15 . 071-20791-0000					
Company Horseshoe Operating, Inc.					Lease Barr					2-16	Well Number 2-16		
County Location Greeley C NW				Section 16		TWP 17S	TWP 17S		RNG (E/W) 40W		Acres Attributed		
Field Bradshaw				Reservoir Winfiel			Gas Gathering		ering Conne				
Completion Date 9/10/04					k Total De	pth	Packer Set at						
Casing Size Weight				Internal I	Diameter -		Set at 3036		Perforations 2962				
	bing Size Weight				Internal Diameter		Set at		Perforations		2969 To		
.375 4.70				2.0000			2975		2981				
Type Completion (Describe) Single				Water	Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit					
roducing	Thru (A	nnulus / Tubi	ng)	% C	arbon Dio	kide	•	% Nitroge	ın	Gas Gr	avity - G		
Vertical D	Pepth(H)				Pre	ssure Taps				(Meter	Run) (Prover) S	Size	
ressure	Buildup:	Shut in	4-2_	20 4 at_	B 100	(AM) (PM)		4-3	320/	14 at 8;	00 (AM))(PI	—— М)	
Well on Li	ine:									at			
			<u> </u>		OBSERV	ED SURFAC	E DATA			Duration of Shut-	in_24_f	, Hours	
Static /	Orifice Size	Circle one Meter	Pressure Differential	Flowing Temperature	Well Head	Wellhoad	Casing Wellhead Pressure		ibing d Pressure	Duration	Liquid Produced		
Property	(inches)	Prover Pres psig (Pm		t	t	(P _w) or (f	P _t) or (P _c)	(P _w) or psig	(P ₁) or (P _c)	(Hours)	(Barrels)		
Shut-In		_					109			24			
Flow													
					FLOW ST	REAM ATTR	RIBUTES				_		
Plate Coeffieci (F _b) (F Mcfd	ient	Circle one: Meter or rover Pressure psia	Press Extension ✓ P _m x h	Extension Fact		Flowing Temperature Factor F _{It}	Fa	rlation actor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Genui	d ity	
P _c)2=		(P _w)²		(OPEN FLO	OW) (DELI	VERABILITY	') CALCUL P _e - 14.4) +			(P _a) (P _d)	²= 0.207		
<u>' c' </u>			Choose formula 1 or 2	<u>. </u>		- 1	essure Curve				Open Flow		
(P _a) ² - (F or (P _a) ² - (F	P _a) ²	(P _c) ² - (P _w) ²	1. P _a ² -P _a ² 2. P _a ² -P _a ² divided by: P _a ² -P _a	LOG of formula 1. or 2. and divide by:	P _e ² -P _w ²	Slope = "n"		n x L	og	Antilog	Deliverabilit Equals R x An (Mcfd)	ty	
-			account of the			Gizzi							
Open Flov	w		Mcfd @ 14	.65 psia		Deliverat	bility			Mcfd @ 14.65 psi	ia		
		ed authority.			tates that			o make the		nt and that he ha		 of	
			said report is tru			_	15	day of	pril	0 4	, 20 / 4	⊈.	
		•					($\int d\mathbf{n}$	ire k	inley	_		
		Witness	CA						<u> </u>	2			

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I declare under penalty of perjury under the laws of the state of Kansas 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 Barr 2-16
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: 4-15-14
Signature: Janice Ripley Title: Aroduction 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.