## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:					(See Instruct	ions on Reve	erse Side	)				
Open Flow													
Deliverabilty			2-2-/	Test Date: 3-2-12			API No. 15 15-071-20756 - 60 - 60						
Company Horseshoe Operating, Inc.					Lease Ross			Well Number 5					
County Greele	у		Location W/2 W/2		Section 5		TWP 18S		RNG (E/W) 39W		Acres Attributed		
Field Bradsh	aw					Reservoir Winfield				Gas Gathering Connection DCP Midstream			
Completi 8-5-20		te			Plug Back Total Depti 2947		h	Packer Set at		Set at			
Casing S 4.5	ize		Weight 10.5			Internal Diameter 4.052		Set at <b>2947</b>		orations 9	то <b>2920</b>		
Tubing Size 2.375			Weight 4.7		Internal Diameter 2.000		Set at <b>2940</b>		Perforations		То		
Type Cor Single		n (Describe)			Type Flui Water	Type Fluid Production Water		Pump Unit or Trav		nit or Traveling	unit - Rod		
Producing Thru (Annulus / Tubing)					% (	% Carbon Dioxide			% Nitrogen Gas Gravity - G <sub>g</sub>				
Casing													
Vertical C	)epth(l	H)	•			Flan	sure Taps ge				•	Run) (Prover) Size	
Pressure	Buildu	ıp:	Shut in	?-/2	0/2 at _	9:15	(AM) (PM) 1	Taken	2-0	2 2d	2 at 9:	15 (AM)(PM)	
Well on L	ine:		Started	2	0 at	· · · · · · · · · · · · · · · · · · ·	(AM) (PM)	Taken		20	at	(AM) (PM)	
			Citale one:		<u> </u>	OBSERVE	D SURFACE		ı .	Tubing	Duration of Shut-	in <u>24</u> Hours	
Static / Orifice Dynamic Size Property (inches			Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature Temperature t t		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>e</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In .5		50					58 58	psta	psig psia		24		
Flow						<u></u>			<u> </u>				
						FLOW STR	EAM ATTRI	BUTES		1		<del></del> 1	
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Citch one: Maler or Prover Pressure psia		Press Extension Pmxh	Gravity Factor F		Flowing Deviation  Factor Factor Free Free Free Free Free Free Free Fr		ctor R		GOR (Cubic Fe Barrel)	Genvilly i	
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> )²=	•	(OPEN FLO	OW) (DELIVI	ERABILITY)	CALCUL - 14.4) +		•	(P <sub>•</sub> ) (P <sub>•</sub> )	<sup>2</sup> = 0.207	
(P <sub>c</sub> ) <sup>2</sup> + (P <sub>s</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>3</sup>		1. P. 2. P. 2  2. P. 2. P. 2  Midded by: P. 2. P. 2	LOG of formula 1. or 2. and divide	P.2. P.2	Backpress Slope		nx	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Ones Elev					No						And @ 14 65 co		
Open Flow	<u> </u>			Mcfd @ 14.6	oo psia		Deliverabili	ıty			Acfd <b>@</b> 14.65 ps	ka .	
				behalf of the				6	o make the day of _	apri	t and that he ha	s knowledge of , 20 12	
			Witness (if	any)		<del>coel</del> ve	ם	0			отправу		
•			For Commis	sion	Al	<del>R 18</del> 2	012			Chect	ked by		

KCC WICHITA

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 Ross #5
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: 4/16/12
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.