KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				('See Instruct	ions on Rev	rerse Side	e)	•			
Ope	en Flow			Took Dok				A DI	No 15			
Deliverabilty				4-3-/4					No. 15 -20820-00-0	0		
Company Horseshoe Operating, Inc.			<u>, </u>		Lease Edman	Lease				Well Number 4-17		
County Location Greeley C SW			Section 17			TWP 19S		W)		Acres Attributed		
Field > Bradshaw			Reservoir Winfield				Gas Gathering Connection DCP Midstream					
Completion Date 7/18/05			Plug Back Total Depth 2900			<u>, , , , , , , , , , , , , , , , , , , </u>	Packer Set at None					
Casing Siz 4.5	Casing Size Weight .5 10.5			Internal E 4.052	Diameter	Set at 2926			Perforations 2862		то 2875	
Tubing Size				Internal 0 2.000	Diameter	Set at 2900		Perforations 287 9		To 288 5	2885	
Type Completion (Describe) Single				Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Yes Rod				
	Producing Thru (Annulus / Tubing)				% Carbon Dioxide				% Nitrogen Gas Gravity - G _g			
Annulus						-				(14-1	Bu-1 (B. 1) Of the	
Vertical Depth(H) 2926				Pressure Taps Flange				(Meter Run) (Prover) Size 2"				
1/2 1/0/10/10 //2 1/1 0/10									00_(AM) (PM)			
Well on Lin	ne:	Started	z	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shut	-in_ <u>34</u> Hours	
Static / Dynamic Property	Orifice Circle one: Size Meter Prover Pressu			Flowing Temperature t	Well Head Temperature t	Wellhood Proceuro		Tubing Wellhead Pressure (P _w) or (P _I) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	- - 		Inches H ₂ 0			psig psia		psig	psia	24	 	
Flow							, ,					
					FLOW STR	EAM ATTRI	BUTES					
Plate Coeffictient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia Press Extension Pmxh		Gravity Factor F _g		Flowing emperature Factor F _{I1}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	/ Crovity	
			<u> </u>									
(P _c) ² =	:	(P _w)² =	<u></u> :	(OPEN FLO	D W) (DELIVI	•	CALCUL - 14.4) +		· :	(P _a) (P _d)	1 ² = 0.207 1 ² =	
(P _c) ² - (P _a or (P _c) ² - (P _d		(P _c) ² - (P _w) ²	1. P _c ² -P _s ² 2. P _c ² -P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpressur Slope = or- Assigne			LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			divided by: Pc - P	by:	<u> </u>	Standa	ırd Slope			-	(WGIU)	
					,					· .		
Open Flow	·		Mcfd @ 14.	65 psia		Deliverabi	lity			VIcfd @ 14.65 ps	ia	
The un	ndersign	ed authority, o	n behalf₁of the	Company, s	tates that he	e is duly aut	thorized t	o make th	e above repor	rt and that he ha	as knowledge of	
ne facts sta	ated ther	ein, and that s	aid report is true	and correct	t. Executed	this the	<u> </u>	day of _	uyu	in la	, 20 <u>/ 7</u> .	
		Witness	(if any)			_		janu	For C	mpany KynysAS C	RECEIVED ORPORATION COMMIS	
		For Com	nIssion			_			Chec	ked by	NUG 0 6 2014	

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 Edman 4-17 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: $8-4-14$
Signature: <u>Anich Ripley</u> Title: <u>Production Assistant</u>

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.