KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruct	tions on Re	verse Side)					
Open Flow Deliverabil			Jest Dat	: !4				No. 15 -20664-00-	00			
Company Horseshoe Ope	Lease Householder				2			Well Number				
County Location Greeley C W/2 NW/4			Section 28				RNG (E/W) 40W			Acres Attribute 640		
Field Bradshaw			Reservoi Winfield		,			thering Conn lidstreæm	ection			
Completion Date 4-4-1997			Plug Bac 2826	k Total Dept			Packer Set at None					
Casing Size 4.5	ize Weight 11.6			Diameter	Set at 2826		Perforations 2792		То 2808			
Tubing Size Weight 2.375 4.7			Internal I 1.995	Diameter	Set at 2810'		Perforations		То			
Type Completion Single - Gas	(Describe)		Type Flui Water	id Production	1			nit or Traveling Unit - Rod	Plunger? Yes	s / No		
Producing Thru (Annulus / Tubing) Annulus			% Carbon Dioxide				% Nitrog	jen	Gas (Gas Gravity - G		
Vertical Depth(H)			-	Press Flang	sure Taps ge				(Mete 2"	r Run) (P	rover) Siz	
Pressure Buildup	: Shut in	1-2 2	0 <u>/</u> 4 at_	8:00	(AM) (PM)	Taken	4-3	320,	14 at 8;	00	(ÁM)(PM	
Well on Line:	Started	21	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
	1		-	OBSERVE	SURFACE				Duration of Shu	ıt-in	2 <u>4</u> но	
Dynamic Size	ynamic Size Meter Difference Concepts (inches)		Flowing Well Head Temperature t		(P _w) or (P ₁) or (P _c)		Tubing Welihead Pressure (P,) or (P,) or (P,)				id Produce Barrels)	
Shut-in ,75	_ 	Inches H ₂ 0			psig	92.6	psig	psia	24	-		
Flow							<u> </u>					
	Circle one:			FLOW STR		IBUTES						
Plate Coefficeent (F _b) (F _p) Mcfd	Meter or Prover Pressure psia	Press Extension	Fac	Gravity Factor F _g		Flowing Deviati Factor F _p ,		Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
	 .										<u> </u>	
(P _c) ² =	: (P _w) ² =	<u> </u>	(OPEN FL	OW) (DELIVE	-)		· :	(P.) ² = 0.2	07	
$(P_e)^2 - (P_a)^2$ or $(P_e)^2 - (P_d)^2$	(P_c) ² - (P_w) ² 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1, or 2, and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Stope		n x LOG		Antilog	Del Equals	Open Flow Deliverability Equals R x Antile (Mcfd)	
		·		1	,							
Open Flow	Flow Mcfd @ 14.					Deliverability		Mcfd		d @ 14.65 psia		
The undersig		on behalf of the	Company, s		e is duly au	thorized to	make the	e above repoi	rt and that he h	nas know	20 _/_	
	14101022 ((or early)						For O	~~~ <i>(</i> /		6 2014	
· · · · · · · · · · · · · · · · · · ·	For Conur	nission			_			Oh	ked by	1114-11-	K 71111	

	penalty of perjury under the laws of the state of Kansas that I am authorized to request r Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	ing pressure information and statements contained on this application form are true and
_	f my knowledge and belief based upon available production summaries and lease records
	ation and/or upon type of completion or upon use being made of the gas well herein named.
• •	t a one-year exemption from open flow testing for the Householder 2
gas well on the grou	
i i i i i i i i i i i i i i i i i i i	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D o supply to the best of my ability any and all supporting documents deemed by Commission o corroborate this claim for exemption from testing.
Date: 8-4-14	·
	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.