KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				6	See Instruc	tions on Rev	verse Side)	•		
Ope	en Flow			Test Date				ΔPI	No. 15		
✓ Deli	iverabilty				13 to 05/24	4/2013			-20776 - 00	00	
Company Horsesho		ating, Inc.	-			Lease Chester	•			#2	Well Number
County Location Greeley W/2 E/2 NE			Section 19		TWP 17S		RNG (E/W) 40W			Acres Attributed	
Field Bradshaw				Reservoir Lower Winfield, Upper Ft. Riley				Gas Gathering Connection DCP Midstream			
Completion Date 11/12/03				Plug Back Total Depth 3068				Packer S	et at		
Casing Size Weight 4.5 10.5				Internal E 4	Internal Diameter 4		Set at 3075		Perforations 2966-76, 2980-86		
Subing Size Weight . 2.375 4.7			Internal Diameter 1.995		Set at 2992		Perforations		То		
Type Completion (Describe) Single (Gas)					Type Fluid Production Salt Water			Pump Unit or Traveling Plunger? Yes / No Pumping Unit			
Producing Annulus		nnulus / Tubing)		% C	arbon Dioxi	de		% Nitrog	en	Gas G	ravity - G _g
Vertical D					Pressure Taps Flange					(Meter 2 inc	Run) (Prover) Size
Pressure I	Buildup:	Shut in05/20)2	13 at 6		-	Taken 0	5/24	20	13 at 8:30 A	
Well on Li				0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
					OBSERVE	D SURFACI	E DATA			Duration of Shut	-in 98 Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Meter Differential ver Pressure in		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _c) or (P _c) psig psia		Liquid Produced (Валгеіs)
Shut-In		,				90	103.4	n/a	n/a	98	n/a
Flow											
					FLOW STE	REAM ATTR	IBUTES	Т	·		
Plate Coeffieci (F _b) (F _c Mcfd	ient _P) Pi	Meter of Extension Prover Pressure psia Prover Pressure		Gravity Factor F _g		Tomperature		viation Metered Flow actor R F _{pv} (Mcfd)		W GOR (Cubic F Barret	eet/ Fluid
(P _c)² =	:	(P _w) ² =	<u>:</u>	(OPEN FL		'ERABILITY % (F) CALCUL P _c - 14.4) +		:) ² = 0.207) ² =
(P _c) ² - (F or (P _c) ² - (F	_	(P _c) ² - (P _w) ² (P _c) ² - (P _w) ² 2. P _c ² - P _d 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 Slope		l n x i	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flor			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	sia
`		ed authority, on			states that h	·····		to make th			as knowledge of
the facts s	tated ther	ein, and that said	d report is true	e and correc	t. Executed	I this the 04	\sim	day of J	. / <i>)</i>	inless	KCC WIC
		Witness (if a	апу)				J	ani	Hor	CImpany /	JUL 05 2
	· · · · · · · · · · · · · · · · · · ·	For Commis	sion		<u></u>	_			Che	cked by	RECEIV

exemple and the correct	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request optistatus under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. that the foregoing pressure information and statements contained on this application form are true and ct to the best of my knowledge and belief based upon available production summaries and lease records
-	uipment installation and/or upon type of completion or upon use being made of the gas well herein named. hereby request a one-year exemption from open flow testing for the Chester #2
	vell on the grounds that said well:
	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 further agree to supply to the best of my ability any and all supporting documents deemed by Commissions necessary to corroborate this claim for exemption from testing.
Date:	06/04/2013
	Signature: <u>Januel Riply</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.