KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

Type Tes	St.					(See Instru	ctions on H	everse Sia	(e)				
Open Flow Deliverabilty					Test Date: 8/5/10					Pl No. 15 1-20734-00-			
Company Horseshoe Operating, Inc.				Lease Miller A						2=3	Well Nu	ımber	
County Greeley	,		Location C NW		Section 23		TWP 20S		RNG (E/W) 40W			Acres Attributed 640	
Field Bradshaw				Reservo U. Wint					Gas Gathering Connection DCP Midstream			÷ ,	
Completion Date 1-24-2001				Plug Back Total Depth 2841				Packer None	Set at				
Casing 9		Weight 10.5			Diameter	Set at 2890		Perforations 2801		то 2806			
Tubing S 2.375		Weight 4.7			Diameter	Set at 2812		Perforations		То			
Type Completion (Describe) Single - Gas					Type Fluid Production Water				Pump U	nit or Traveling Unit - Rod	/ No		
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide							ravity - G	g	
Vertical D	Depth(H	i)				Pres Flan	ssure Taps				(Meter	Run) (Pr	over) Size
	Buildu	p: Shut in	8,	14	o 10 at 1			Taken	8/	5 20	10 at 1;0	0 ,,	AMI PAMI
Well on L			,				_		,		at		
				Pressure		OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24	Hou
Static / Dynamic Property	Orifi Size (inche	Mete Prover Pre	Meter Prover Pressure		Flowing Well Hear Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In				_			polg	54	psig	psia	24		
Flow						<u> </u>							
			- i -			FLOW STR	REAM ATTR	IBUTES	·····			 -	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Fact	Gravity Factor F _g		perature Factor F _{pv}		Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m
					OPEN EL	OW) (DELIV	ERABILITY) CAL CIII	ATIONS				
(P _c) ² =		_: (P _w)		:	P _d =) CALCUL P _c - 14.4) +		<u> </u>	(P _a) ²	2 = 0.20° 2 =	7
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpressure Curve Slope = "n"or Assigned Standard Slope		пх	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			ļ					· · · · · · · · · · · · · · · · · · ·					
Open Flo	w		<u> </u>	Mcfd @ 14.6	S5 psia		Deliverab	ility			Motel @ 44.05		
		gned authority	on b			tates that h			make th		Mcfd @ 14.65 psidert and that he had		dae of
		nerein, and tha						11	day of _	ctolil	U		10.
		Witne	s (if any	v)			-	(Jan	rice		y R	ECEI\	/ED
The Links or A P. A		For Co	mmissio	on				V				CT 14	2010
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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 Miller A 2-23
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:
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.