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

Type Tes	t:				(	See Instruc	ctions on Rev	erse Side	)					
Op	en Flo	w			Toot Date	,			ΔÐI	No. 15	,			
Deliverabilty					Test Date: 5-22-12				API No. 15 15-071-20076 - OO- OO					
Company		Ope	erating, Inc	<u> </u>		1.0	Lease Harding	3			1	Well Nu	ımber	
County Greeley  W2  E/2  SW			Section 10		TWP 20S		RNG (E/W) 40W			Acres Attributed				
Field Bradshaw				Reservoir Winfield			Gas Gathering Connection DCP Midstream							
Completion Date 5/1975				Plug Back Total Depth 2860 TD			Packer S	Set at			-			
Casing S 4.5	ize	Weight 10.5			Internal Diameter 4.052		Set at <b>2860</b>		Perforations 2800		To 2808			
Tubing S 2.375	ize	Weight 4.7			Internal Diameter 2.0000			Set at 2857		Perforations		То		
Type Completion (Describe) Single gas				Type Fluid Production Water				Pump Unit or Traveling Plunger? (Yes) No						
		(Anı	nulus / Tubing	3)		arbon Diox	kide		% Nitrog	en	Gas Gr	avity - (	9 <sub>g</sub>	
Vertical D	epth(F	<del>l)</del>			<del></del>	Pre	ssure Taps				(Meter		rover) Size	
				~ ~ .		Flar	nge		<del></del>	<del>, , , , , , , , , , , , , , , , , , , </del>	10 1:1			
Pressure	Buildu	p: :									12 at 9:5		(PM)	
Well on L	ine:		Started	20	D at	·	_ (AM) (PM)	Taken	•	20	at	'	(AM) (PM)	
			7			OBSERV	ED SURFACE	DATA	.,		Duration of Shut-	in _	24_Hours	
Static / Dynamic Property	Dynamic Siz		Citate one: Meter Prover Pressu psig (Pm)	1	Temperature Tempe		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	Shut-In .50		psig (Fili)	Inches H <sub>2</sub> 0			psig	39.4	psig	psia	24			
Flow														
					1	FLOW ST	REAM ATTRI	BUTES			1			
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> x h	Grav Fact	tor	Flowing Temperature Factor Fit	i Deviation		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
	٧.			4			····							
		•	* * *		(OPEN FL	OW) (DELIV	VERABILITY)	CALCUL	ATIONS		(P <sub>a</sub> )	<sup>2</sup> = 0.2	207	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> )²=	<u> </u>	P <sub>d</sub> =		,% (P	· - 14.4) +	14.4 =	<del>:</del>	(P <sub>a</sub> )	) <sup>2</sup> =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Co Slope = "n" or Assigned Standard Slop		n x LOG		Antilog	De Equal:	Open Flow Deliverability Equals R x Antilog (Mcfd)	
						· · · · · · · · · · · · · · · · · · ·								
Open Flow Mcfd @ 14.65				S5 psia	l l 5 psia Deliverability			Mcfd @ 14.65 psia						
				behalf of the		. Executed		36	day of _	ne above repor	and that he ha		vledge of 20 <u>/ 2</u> .	
			Witness (if	any)		,	UL 05 2	2012	1	For C	ompany			
***************************************			For Commi	ssion						Chec	ked by			

KCC WICHITA

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	ry under the laws of the state of Kansas that I am authorized to request							
exempt status under Rule K.A.R. 82-3	3-304 on behalf of the operator Horseshoe Operating, Inc.							
and that the foregoing pressure info	ormation and statements contained on this application form are true and							
correct to the best of my knowledge a	and belief based upon available production summaries and lease records							
of equipment installation and/or upon	n type of completion or upon use being made of the gas well herein named.							
I hereby request a one-year exer	mption from open flow testing for the Harding #1							
gas well on the grounds that said we	all:							
(Check one)								
is a coalbed meth	ane producer							
is cycled on plung	is cycled on plunger lift due to water							
is a source of nate	ural gas for injection into an oil reservoir undergoing ER							
is on vacuum at th	ne present time; KCC approval Docket No							
is not capable of p	producing at a daily rate in excess of 250 mcf/D							
I further agree to supply to the b	est of my ability any and all supporting documents deemed by Commission							
staff as necessary to corroborate this	s claim for exemption from testing.							
Date: 6-26-12								
Date.								
•								
	$\sim$ 0 · 1							
	Signature: Anich Rubles							
	Production Assistant							
	Title:							

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.