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

Type Test	:				(i	See Instructi	ons on Reve	rse Side)	)					
= :	en Flov Iiverabl				Tost Date	<i>i)</i>				No. 15 071-20076	-0607	)		
Company		)pe	rating, Inc.	<del></del> _	1/04/1	<u>/</u>	Lease Harding					Well Nu	mber	
County Greeley		-	W2 F7 5W		Section 10		TWP 20S		RNG (E/W) 40W		Acres Attributed		ttributed	
Field Bradshaw					Reservoir Winfield				Gas Gathering Connection DCP Midstream					
Completion Date 5/1975			· · ·	Plug Back Total Depth 2860 TD		h		Packer S	iet at					
Casing Size 4.5			Weight 10.5		Internal Diameter 4.052		Set at 2860		Perforations 2800		то 2808			
Tubing Size 2.375			Weight 4.7		Internal Diame 2.0000		Set at <b>2857</b>		Perforations		То			
Type Completion ( Single gas			scribe)	<u></u>	Type Flui Water	d Production			Pump Unit or Traveling Plung		$\overline{}$			
Producing Casing	Thru	(Ann	ulus / Tubing)		% C	arbon Dioxid			% Nitrog	en		avity - G		
Vertical D	epth(H	)				Press Flan	sure Taps 30		,		(Meter	Bun) (Pi	rover) Size	
Pressure	Buildu	p: 8	Shut in	25 2	0 // at /	2:15	(AM) (PM) T	aken	7/2	20 /	11 at 12:	15	AM) (M)	
Well on L	ine:	8	Started	2	0 at		(AM) (PM) 1	aken		20 .	at	(	AM) (PM)	
·	_			- <sub>1</sub>	, <del></del>	OBSERVE	D SURFACE				Duration of Shut	in 🖋	4 Hours	
Static / Oynamic Property	ynamic Size		Gircle one:  Meter  Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)		Liquid Produced (Barreis)	
Shut-In	.50	0		<u> </u>				13.5			24			
Flow				<u></u> _										
:	<del></del>		····			FLOW STR	EAM ATTRIE	UTES					<del> </del>	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psla		Press Extension P <sub>m</sub> x h	Grav Fac F	tor 1	Flowing Deviation Factor F <sub>p</sub> ,		actor	Metered Flow R (Mcfd)	GOR (Cubic F Barrel	set/	Flowing Fluid Gravity G <sub>m</sub>	
												<u>-</u>		
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> )² =_	:	(OPEN FL		ERABILITY) % (P	- 14.4) +				) <sup>2</sup> = 0.2 ) <sup>2</sup> =	207	
(P <sub>e</sub> ) <sup>2</sup> - (I or (P <sub>e</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(P	<sub>a</sub> )² - (Ρ <sub>w</sub> )²	1. $P_a^2 - P_a^2$ 2. $P_a^2 - P_d^2$ Moded by: $P_a^2 - P_w^2$	LOG of formula 1. or 2. and divide		Ass	= "n"		гоа	Antilog	De <sup>2</sup> Equals	pen Flow liverability s R x Antilog (Mcfd)	
	$\dashv$				<del> </del>				_			<del> </del>		
Open Flow Mcfd @ 14.65 psia					Deliverabil	Deliverability Mcfd @ 14.65 psia								
The	undersi		l authority, on					horized	to make to day of _	ונחנול	nt and that he r	as knov	viedge of 20 .	
			Witness (if	···			_				ampany (	RE	CEIVED	
			For Commis	sion						Chec	ked by			

AUG 1 1 2011 KCC WICHITA

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
	der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	going pressure information and statements contained on this application form are true and
	st of my knowledge and belief based upon available production summaries and lease records
· -	tallation and/or upon type of completion or upon use being made of the gas well herein named.  uest a one-year exemption from open flow testing for the Harding #1
	rounds that said well:
(Chec	
	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
	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	y to corroborate this claim for exemption from testing.
Date: <u>8/2//</u>	
	Signature: Janice Ripley- Title: Production Assistant

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.