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

Type Tes	t:				(	See Instruc	tions on Re	verse Side	)				
Open Flow Deliverabilty			2		API No. 15 15-071-20076 <b>- 0000</b>								
Company Horseshoe Operating, Inc.				4-3-14			Lease Hardin	<del></del>			Well Number		
County Greeley			W/2 E/2 SW		Section 10		TWP 20\$		RNG (E/W) 40W		4	Acres Attributed	
Field Bradshaw					Reservoir Winfield				Gas Gathering Conr DCP Midstream		ction		
Completion Date 5/1975				_	Plug Back Total Deptil 2860 TD		th		Packer Set at				
Casing Size 4.5			Weight 10.5		Internal Diameter 4.052		Set at <b>2860</b>		Perforations 2800		To 2808		
Tubing Size 2.375			Weigh 4.7	nt	Internal Diameter 2.0000		Set at 2857		Perforations		То		
Type Completion (Des					Type Fluid Production Water		n	P		Pump Unit or Traveling Plung		nger? Yes / No	
Producing Casing	g Thru	(An	nulus / Tubin	g)	% C	arbon Dioxi	ide		% Nitrog	jen	Gas Gr	avity - G <sub>g</sub>	
Vertical D	epth(i	H)				Pres Flan	sure Taps				(Meter F	3 // Size	
Pressure	Buildu	ıp:	Shut in	1-2 2	0 <u>/4</u> at_	8:00	(AM) (PM)	Taken	4	<u>3</u> 201	14 at 8,0	OO (AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in <u>34</u> Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential Ire In Inches H <sub>o</sub> 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing  Welihead Pressure  (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>t</sub> )  psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	.50	20					psig .	///.7	parg	psia	24		
Flow	_			·							<u></u>		
	_		Circle one:	•	<del></del>	FLOW STF	REAM ATTR	IBUTES					
Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Meter or Prover Pressure psia		Press Extension  P <sub>m</sub> x h	Grav Fact F <sub>s</sub>	tor	Temperature Factor		lation ctor pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Gravita I	
	_		<del>_</del>	· ·	(OPEN FLO	OW) (DELIV	ERABILITY	) CALCUL	ATIONS	-		²= 0.207	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		% (F	<sup>2</sup> - 14.4) +	14.4 =	. :	(P <sup>a</sup> )		
(P <sub>c</sub> ) <sup>2</sup> - (F	_	(F	'c)2- (P <sub>w</sub> )2	Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		P <sub>c</sub> <sup>2</sup> • P <sub>w</sub> <sup>2</sup>	Backpre Slop As	ssure Curve ce = "n" -or signed ard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				<u> </u>	<u> </u>		<del>                                     </del>						
Open Flow Mcfd @ 14.65 psia					Deliverability				Mcfd @ 14.65 psia				
				n behalf of the	Company, s		e is duly au	uthorized t	o make the	ne apove repor Magu N Ri	t and that he ha	s knowledge of, 20	
			For Comm	ecles			_			A		RECEIVED	

AUG 0 6 2014

94 × (	)
exempt status un and that the fore correct to the bea of equipment ins	der penalty of perjury under the laws of the state of Kansas that I am authorized to request oder Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.  egoing 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
gas well on the g	rounds that said well:
∫ further agre	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 se to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
	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.