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

Type Test:					(See Instruc	ctions on Re	everse Sid	(e)			
	en Flow iverabilty	•		Test Dat	e: -/ス				No. 15 -20820-00-0	n	
Company				JAA		Lease			-20020-00-0		Well Number
Horseshoe Operating, Inc. County Location			Section	Section TWP			RNG (E/	W)	4-17	Acres Attributed	
Greeley C SW			17	17 19S Reservoir			40W	hering Conne	ation	<del></del>	
Bradshaw			Winfield	Winfield				didstream			
Completion Date 7/18/05				Plug Bad 2900	Plug Back Total Depth 2900				et at		
Casing Size Weight .5 10.5			Internal ( 4.052	Diameter	Set at <b>2926</b>		Perforations 2862		то <b>287</b> 5	The state of the s	
Tubing Size	ng Size Weight		Internal i	Internal Diameter		Set at 2900		Perforations 2879			
Type Completion (Describe)				d Productio		Pump Unit or Trave		it or Traveling	2885 Plunger? Yes		
Single Producing Thru (Annulus / Tubing)				Water % Carbon Dioxide				Yes Rod  % Nitrogen Gas Gravity - G <sub>a</sub>			
nnulus											
/ertical Depth(H) 2926				Pressure Taps <b>Flange</b>					(Meter 2"	Run) (Prover) Size	
Pressure B	Buildup:	Shut in	5-21	20 13 <sub>at</sub>			Taken	5-	22 20/	3 at 9.	15 (AM) (PM)
Ve <del>l</del> l on Lin	ie:	Started	2	0 at		$\overline{}$				at	(AM) (PM)
**************************************				<del></del>	OBSERVE	D SURFACI	E DATA	· ·	· · · · · · · · · · · · · · · · · · ·	Ouration of Shut	t-in_24_Hours
Static / lynamic	Orifice Size	Circle one: Meter Prover Pressu	Pressure Differential in	Temperature To	Well Head Temperature	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>n</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
Property Shut-In	(inches)	psig (Pm)	Inches H <sub>2</sub> 0	t	t .	psig	psia	psig	psia		
Flow	<del></del> ·		-				<u>13</u>		-	24	
110#	<del></del> .	<u> </u>			FLOW STR	EAM ATTRI	IRLITES	, ·			
Plate		Circle one:	Press	Grav		Flowing		ation	Metered Flow	GOR	Flowing
Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Pi Mcfd		Meter or over Pressure psia	Extension P_xh	Facti		emperature Factor F <sub>II</sub>	Factor F		cctor R P (Mcrtd)		eet/ Fluid Gravity G <sub>m</sub>
									4		
		•		(OPEN FLO	)W) (DELIVI	ERABILITY)	CALCUL	ATIONS	<del>-</del> -	(P_)	)² = 0.207
c) <sup>2</sup> =	<del></del> :	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2:	P <sub>d</sub> = _		Τ	<sub>c</sub> - 14.4) +	14.4 =	: :	(P <sub>d</sub> )	) <sup>2</sup> =
$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	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> Strided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	formula p 2 p 2 1, or 2.		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x ĻOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
<del></del> ,					•						
en Flow			Mcfd @ 14.6	55 psia	_ <del>-</del>	Deliverabil	lity			cfd @ 14.65 ps	ia
							thorized to	make the			as knowledge of
facts state	ad therei	n, and that sai	d report is true	and correct.	Executed t	his the	10 °	lay of	Ri	les	,₂₀ <u>/≾</u> KCC WICHI
		Witness (if a				-	Ju		Forton	праву	JUN 2 0 2013
									JHOORE	,	RECEIVED

and that the correct to the of equipmen	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.  foregoing pressure information and statements contained on this application form are true and e best of my knowledge and belief based upon available production summaries and lease records in tinstallation and/or upon type of completion or upon use being made of the gas well herein named. Trequest a one-year exemption from open flow testing for the Edmun 4-17 the grounds that said well:
(1	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
l further staff as nec	r agree to supply to the best of my ability any and all supporting documents deemed by Commission essary to corroborate this claim for exemption from testing.
Date: 6	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.