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

Type Test:	:			(	See Instruct	ions on Reve	erse Side,	)				
Open Flow			Test Date: API No. 15									
Deliverability			1-13-12				15-071-20154					
Company		erating, Inc	<u></u>		<u> </u>	Lease Vester			·	1	Vell Number	
County Location Greeley N/2 NE		on	Section 11	·	TWP 17S		RNG (E/W)		Acres Attributed 640			
Field		14/2 142		Reservoir				Gas Gathering Connectio				
Bradshaw				Chase	Chase			DCP M	dstream		<del></del>	
Completion Date 12/1977			Plug Back Total C 2995			h 		Packer Set at None				
Casing Size 4.5		Weight 10.5		Internal Diameter 4.04		Set at 3001		Perforations 2952		To 2976		
Tubing Size 2.375		Weight 4.7		Internal Diameter 1.995		Set at 2927		Perforations		То		
Type Completion (De Single Gas		Describe)		Type Fluid Production Water				Pump Unit or Traveling Plum Yes		Plunger? Yes	unger? Yes / No	
Producing Thru (Annulus Annulus		nnulus / Tubing	Tubling) % Carbon Did			de % Nitrogen			en	Gas Gravity - G		
Vertical De		<u>-</u>		<del></del>	Pres	sure Taps	<u>.                                    </u>			(Meter F	lun) (Prover) Size	
	Buildup:	Shut in	1-12 20	12at 9	:00	(AM) (PM)	Taken	1-/	320/	2 at 9:00	(AM) (PM)	
Well on Li						$\smile$				at		
					OBSERVE	D SURFACE	DATA			Duration of Shut-	n 24 Hours	
Static / Orific Dynamic Size Property (Inche		Circle one: Meter Prover Pressu	, ,	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_a)$		Tubing Weilhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	.625	paig (Pm)	Inches H <sub>2</sub> 0			psig	95	paig	psia	24		
Flow				-								
			r		FLOW STR	EAM ATTRI	BUTES	·····		<del>- <sub>I</sub></del>		
Plate Coeffiecie (F <sub>e</sub> ) (F <sub>p</sub> Mcfd	_	Circle one: Meter or Trover Pressure psla	Press Extension P <sub>m</sub> x h	Grav Fact	tor 1	Flowing Femperature Factor	Fa	lation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
				100511 57	200 (25)	50404170	04 011	ATIONS	···			
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> )² =	:	P <sub>d</sub> =		ERABILITY) % (P	- 14.4) +		<u></u> :	( <b>P<sub>a</sub>)</b> ነ ( <b>P<sub>a</sub>)</b>	2 = 0.207 2 =	
(P <sub>a</sub> ) <sup>2</sup> - (P or (P <sub>a</sub> ) <sup>2</sup> - (P	7);	(P°)3 • (b°)3	Choose formula 1 or 2:  1. P <sub>a</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> dMidsel by: P <sub>a</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by:	P.2. P.2	Backpressure Curve Slope = "n"		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
							P4 .					
Open Flow			Mcfd @ 14.6			Deliverabi				Mcfd @ 14.65 psi		
			n behalf of the laid report is true				thorized (	to make the day of	ne above repo	nt and that he ha	is knowledge of	
		Witness (				<u>(</u>	Jan	ice		ly- Smoth	RECEIVED	
	<del>-</del>	For Comm	ission			_			Che	cked by	MAR-2-8-2012	

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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 Vester 1
gas well on the grounds that said well:
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: 3-26-12
Signature: <u>Production</u> 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.