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

Type Test	t:				:- (	See Instruct	ions on Reve	erse Side	<del>)</del> )					
Open Flow					Toot Date	Test Date:			ΔP	l No. 15				
Deliverability				7-18-	7-18-14			075-20606-00-00						
Company Horseshoe Operating, Inc.							Lease White		,	*	· 1	Well Number		
County Location Hamilton NE					Section 07		TWP 23\$		RNG (E/W) 40W			Acres Attributed 320		
Field Bradshaw					Reservoir Winfield		æ		Gas Gathering Connection DCP Midstream		ction			
						Plug Back Total Depth			Packer	Set at		<del></del>		
10-3-96	izo		Weigh	<b>*</b>		2595 Internal Diameter Set at			Porte	 prations	То			
Casing Size Weight 4.5 11.600				4.000			2604		2567		2582			
Tubing Size Weight 2-3/8" 4.700				Internal D 1.995	Diameter	Set at 2584		Perforations		То				
Type Completion (Describe) Single - Gas					Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod				
Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G											avity - G			
Casing  Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size														
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Siz 2574 Flange												nun) (Prover) Size		
Pressure	Buildu	o: (	Shut in	7-17 _2	0/4at_			iaken	7-1	8 20/	14 at 8:1	5 (AM) (PM)		
Well on L	ine:	:	Started	2	0 at		(AM) (PM) 1	Taken		20	at	(AM) (PM)		
						OBSERVE	D SURFACE	DATA			Duration of Shut	in <u>24</u> Hours		
Static / Orifi Dynamic Siz Property (inch		Ze Prover Pressure		Pressure Differential re in Inches H <sub>0</sub> 0	Flowing Temperature t	Well Head Temperature t	(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> ) psig psia		Duration (Hours)	Liquid Produced (Barrels)		
Shut-in	.75	50		Interies 11 <sub>2</sub> 0			psig	psig psia		psia	24			
Flow					i									
				,		FLOW STR	EAM ATTRIE	BUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> xh	Grav Fact	tor T	Temperature Fa		viation Metered Flow actor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Fe	eet/ Fluid Growing		
	1									-	,			
L					(OPEN FL	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS	<u>.                                    </u>	/n \	2 0.007		
$(P_c)^2 =$	<u>.</u>	_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		·	- 14.4) +		;	(P <sub>a</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		(P <sub>a</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ clivided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide P2. p		Backpressure Curve Slope = "n"		, n x LOG		Antilog .	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				<u> · · · </u>	,		<del>                                     </del>		_	<u></u>				
						•								
Open Flow Mcfd @ 14.65				65 psia	psia Deliverability			Mcfd @ 14.65 psia						
		_	-	n behalf of the		,		7/~	o make the	he spove reporting the sport of	t and that he ha	as knowledge of , 20 ///.		
			Witness (it	any)			Received PORATION COMM	AISSION		For Co	mplay			
			For Comm	sslon		A L I C				Check	ed by			

AUG 2 9 2014

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 White #1
gas well on the grounds that said well:  (Check one)  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: 8-26-/4
Signature: <u>Janice Ripley</u> Title: <u>Production Assistant</u>

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.