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

Type Tes	t;			į	(See Instruc	tions on Re	verse Side	<del>)</del>				
Open Flow Deliverability			Test Date 1-24-1	Test Date: -24-/3				No. 15 -20646 <i>-</i> 00	<b>00</b>	ė.		
Company Horseshoe Operating, Inc.			<u> </u>	Lease Sibyl					1	Well Number		
County Location Greeley NE SE		Section 19		TWP 19S		RNG (E/W) 39W			Acres Attributed			
Field Bradshaw				Reservoir Winfield			Gas Gathering Connection DCP Midstream					
Completion 5-21-96	on Date	<u> </u>		Plug Bac <b>2845</b> '	k Total Dep	th	<u> </u>	Packer S	Set at	4 14 14 14 14 14		
Casing Size Weight 4-1/2" 11.6			Internal I 4.000	Diameter	Set at <b>2854</b> '		Perforations 2822'		то <b>2828'</b>	то 2828'		
Tubing Si 2-3/8"	ize	Weigh	eight Inte		Internal Diameter		Set at <b>2842'</b>		Perforations 2832'		To 2842'	
Type Completion (Describe) Single - Gas			Type Flui Water	Type Fluid Production Water						/ No		
Producing Thru (Annulus / Tubing) Annulus			% C	% Carbon Dioxide			% Nitrogen		Gas G	Gas Gravity - G		
Vertical D					Pres	sure Taps				(Meter	Run) (Prover) Size	
Pressure	Buildup:	Shut in	-23 2	10 <u>/3</u> at_	8:30	(PM)	Taken	1-2	4	3 at 8%	30 (AM) (PM)	
Well on L	ine:	Started	2	0 at		(AM) (PM)	Taken	·	20 _	at	(AM) (PM)	
					OBSERVE	D SURFACE	E DATA		. [	Duration of Shut	in 24 Hours	
Static / Orifice Dynamic Size		Circle one: Meter Prover Pressu	Pressure Differential in	Flowing Well Head Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>o</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>0</sub> )		Ouration (Hours)	Liquid Produced (Barrels)	
Property (inches)		psig (Pm)	Inches H <sub>2</sub> 0	t t		psig	ig psia ps		psia		(Darrolo)	
Flow	.50						62			24		
1				l	FLOW STR	EAM ATTRI	BUTES	·				
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Motd		Circle one: Meter or Prover Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fact F <sub>g</sub>	tor T	Temperature Fa		Metered Flow actor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Fe Barrel)	i Gravita I	
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO	- •	<b>ERABILITY)</b> % (P.	CALCUL 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	n <sup>2</sup> = 0.207	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	>_)2 >_)2	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_g^2$	LOG of formula 1. or 2. and divide	P <sub>0</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope		nxl	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flov	<u>.                                      </u>		Mcfd @ 14.6	65 psia	•	Deliverabi	lity			cfd @ 14.65 ps	<u> </u> ia	
		ed authority, on			t. Executed	this the	2	make th	e above report	and that he ha	as knowledge of , 20 <u>/3</u> .	
		Witness (if		КАЛ	NSAS CORPOR	CEIVED RATION COMM 1 1 2013	MISSION	anu	U K	pley		
. 2		For Commis	ssion		CONSERV	ATION DIVISION HITALKS	)N		Checke	ed by		
Majpajan oza e me Pel						ACCORDANCE	A CONTRACTOR STATE				A CONTRACTOR OF THE PROPERTY O	

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 Sibyl
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: 4-3-13
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.