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

Type Test	:				(	See Instri	uctions on F	Reverse Sid	e)					
Op	en Flow													
Deliverability					Test Date: 1-20-/1 15 - 071-20168 - 0000									
Company	,			· ~~··	1 40-1	1	Lease		<u> </u>	120,00		Well Nu	mher	
Horseshoe Operating, Inc.						Brunswig "A"					1	1700 110	IIIDGI	
County Location			Section				RNG (E	JW)		Acres A	ttributed			
Gréeley NW SE SE						16S 40W				640				
Field N. Byerly				Reservoi				Gas Ga DCP	thering Conn Midstreat	ection n				
Completion Date 7-19-79				Pluig Bac 2990'	Plug Back Total Depth 2990'			Packer	Set at					
Casing S 4-1/2"				Internal ( 4.052	Diameter		Set at 3018'		orations 52'	то 2964'	то 2964'			
Tubing Si 2-3/8*				Internal Diameter 2.000			at Perforations		То					
Type Completion (Describe) Single - Gas				Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plung Pump unit - Rod			·		
	Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide				gen	Gas G	Gas Gravity - G		
Annulus	3												•	
Vertical Depth(H)					Pressure Taps Flange					(Meter 3"	(Meter Run) (Prover) Size 3"			
Pressure	Duildes	: Shut in	1.	-19 %	0 <u>//</u> at _	10:00	(A) (B)	N Takan	1-	20 00	// at 10:0	00 //		
	•										·	<u>_</u>	AM) (PM)	
Well on L	ine:	Started		20	) at		_ (AM) (PM	) Taken		20	at	(	AM) (PM)	
<del>-,</del>				•		OBSERV	/ED SURFA	CE DATA		<del></del>	Duration of Shut	in ai	4 Hours	
Static /	0484	Orifice Circle one: Pressure		Flowing	<u> </u>	1 0	Casing		Tubing	Datation of Still	<u> </u>	TE TOURS		
Dynamic	Size	Z9 Prover Press		Differential in	Temperature	Well Hear Temperatu	<sub>ne</sub>   Wellhea	Wellhead Pressure (P <sub>w</sub> ) or (P <sub>I</sub> ) or (P <sub>e</sub> ) paig psia		ead Pressure	Duration (House)		Liquid Produced	
Property	(inche			Inches H <sub>2</sub> O	t	t t				or (P <sub>i</sub> ) or (P <sub>e</sub> ) psia	(Hours)	(Barrels)		
Shut-In	.50	0						90	psig		24	1		
Flow			_					10	<del> </del>		07	+		
FIGW			1			l		<u></u>						
	—— <sub>I</sub>		_		1	FLOW S	TREAM ATT	RIBUTES		Τ	<del></del>			
Plate Coefficcient		Circle one: Meter or		Press Extension	Grav		Flowing Temperature		viation	Metered Flov	1 -		Flowing Fluid	
(F <sub>b</sub> ) (F		Prover Pressure		✓ P <sub>x</sub> h	Fac		Factor	"	actor F <sub>pv</sub>	R (Mcfd)	(Cubic Fo	ev   Growin	Gravity	
McId		psia		· · · · · · · · · · · · · · · · · · ·	-	<u>'</u>	F <sub>ti</sub>		, ba	(Micra)	Cane	G <sub>m</sub>		
	- (					}								
					(OPEN FL	OW) (DEL	IVERABILIT	Y) CALCUI	ATIONS		(P	)² = 0.20	07	
P <sub>o</sub> )2 =		: (P_)2	<b>-</b>	:	₽ =		_%	(P <sub>a</sub> - 14.4) 4	14.4 = _	:		)² <b>⇒</b>	<del></del>	
/D \2 //	<u>, ,                                  </u>	(D.12 (D.14		ose formula 1 or 2:	100 -4		Backp	ressure Curve	•			On	en Flow	
(P <sub>e</sub> ) () or	·,	(P <sub>e</sub> )² • (P <sub>w</sub> )²		1. P.²-P.²	LOG of formula	}		Siope = "n" or Assigned Standard Slope		LOG	Antilog	Deliverability Equals R x Antilog (Mcfd)		
or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>e</sub> ) <sup>2</sup>				2. P <sub>a</sub> - P <sub>a</sub> 2	1, or 2, and divide	P,2 - P,2					•			
<del></del>	-		anno	ted by: P <sub>s</sub> <sup>2</sup> · P <sub>u</sub> <sup>2</sup>	by:	<u> </u>	j ştar	idaid Siope			<del></del>	<del> </del>		
Open Flow Mcfd @ 14.65 p				35 osia	psia Deliverab			ty Mcf			rid @ 14.65 psia			
The	ındersio	ned authority	on h		`	tates that			to make t	···	rt and that he h		odes of	
		erein, and that						9	day of	Mari	rt anu that he h		11	
racis S	aiou uli	ज्ञा, बाद्य श <b>र्वा</b>	editi i	iepoit is IIIO	anu correc	. Execute	uus u19 _			b.	1		RECEIVE	
		Witness	(II any	<u> </u>	***				anu	e Kip	lly			
								U		•	V	M	IAY 1 2 2	
		For Con	miselo	NO.						Chec	ked by		<del></del>	

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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 foregoi	ng 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 installa	tion 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 Brunswig "A" #1
gas well on the grou	nds that said well:
(Oh nak au	
(Check or	s a coalbed methane producer
=	s cycled on plunger lift due to water
	s a source of natural gas for injection into an oil reservoir undergoing ER
=	s a source of flatural gas for injection into an oil reservoir undergoing En
<u></u>	s not capable of producing at a daily rate in excess of 250 mcf/D
<u>  •                                   </u>	Thot capable of producing at a daily rate in excess of 250 mond
I further agree to	o 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: 5/9/11	
Saic. <u>9</u> 77 11	
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	Signature: <u>Janice Kipley</u>
	Title: Production Assistant
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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.