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

Type Test	:	_			(	See Instruct	tions on Rev	erse Side	<del>)</del> )					
Ор	en Flov	, P	VSI		T4 D-4-				ADI	No 45				
Deliverabilty					Test Date: 10/1/14		API No. 15 181 <b>-20</b> 490-01 <b>00</b>							
Company		sour	ces, Inc.				Lease Wahrma	n				Well No 22H	ımber	
County Location Sherman NWSW				Section 22				RNG (E/W) 39W			Acres Attributed 80			
Field						Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.					
Completic 3/26/200		;			Plug Back 3455'	Plug Back Total Depth 3455'				Set at				
Casing Size Weight			Internal E	Diameter		Set at 3455'		Perforations 3427'		то 3442'				
Tubing Si	ize		Weight			Internal Diameter Set at			Perfo	orations	То			
Type Con Single (						Type Fluid Production Dry Gas			Pump U	nit or Traveling	Plunger? Y	unger? Yes No		
Producing	g Thru		nulus / Tubing	)						gen	Gas	Gas Gravity - G		
Annulus Vertical D		<u> </u>				Pres	sure Taps					ter Run) (P	rover) Size	
3480'		, 				Flange					2"			
Pressure	Buildup		Shut in9-30	2		14 at 1:25 (A							(АМ)(РМ)	
Well on L	ine:		Started 10-1	21	0 14 at 1		(AM)(PM)	Taken _1(	)-2	20	at		(AM) <b>(</b> PM)	
	_		Circle and		<del>_</del>	OBSERVE	D SURFACE		<del>,</del>	To the firm of	Duration of S	hut-in 24	Hours	
Static / Dynamic Property	Dynamic Size		Circle ons: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature f	emperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )			Liquid Produced (Barrels)	
Shut-In			paig (i iii)	Inches 11 <sub>2</sub> 0		_ <b>_</b>	25	99.4	psig	psia				
Flaw							5	19.4			24	0		
		_				FLOW STR	REAM ATTRI	BUTES		τ	-, -			
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia  Press Extension  ✓ P <sub>m</sub> x h		Fac	Gravity T Factor T		Deviation Factor F <sub>pv</sub>		Metered Flow B (Mcfd)	(Cubi	OR ic Feet/ rrel)	Flowing Fluid Gravity G <sub>m</sub>		
		_								11				
					•		ERABILITY)					$(P_a)^2 = 0.2$	207	
(P <sub>c</sub> ) <sup>2</sup> =		<u>- :</u> .	(P <sub>w</sub> )² ≈_	Choose formula 1 or 2	P <sub>d</sub> =	<del></del> _			14.4 = _	<del></del>		(P <sub>d</sub> ) <sup>2</sup> =		
$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		$(P_o)^2 - (P_w)^2 \qquad 1. P_o^2 - P_a^2$ $2. P_c^2 - P_d^2$		LOG of formula 1. or 2. and divide	formula 1. or 2. and divide P2_P2		Backpressure Curve Slope = "n"		n x LOG		De	pen Flow fiverability s R x Antilog (Mcfd)		
-	-	_		livided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub>	by:	<u> </u>	Standa	ard Slope	-   -			<del>-   -</del>		
Open Flo	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65	psia		
		_		behalf of the							ort and that he	e has knov	vledge of	
the facts s	stated th	ierei	in, and that sa	id report is true						December	MART	NAAI	20 <u>14</u> . /	
			Witness (if	any)	<u> </u>	ili WI	CHITA	<u></u>	LOU.	For	Company	way		
			For Commi	esion	F	EB 23	2015 -			Che	ocked by			

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	under the laws of the state of Kansas that I am authorized to request						
exempt status under Rule K.A.R. 82-3-3	04 on behalf of the operator_Rosewood Resources, Inc.						
and that the foregoing pressure inform	ation and statements contained on this application form are true and						
correct to the best of my knowledge and	d 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 exempt	tion from open flow testing for the Wahrman 13-22H						
gas well on the grounds that said well:							
(Check one)							
is a coalbed methan	e producer						
is cycled on plunger	lift due to water						
is a source of natura	al gas for injection into an oil reservoir undergoing ER						
is on vacuum at the p	present time; KCC approval Docket No						
is not capable of pro	oducing at a daily rate in excess of 250 mcf/D						
I further agree to supply to the best	t of my ability any and all supporting documents deemed by Commission						
staff as necessary to corroborate this c	elaim for exemption from testing.						
Date: 12/16/14							
KCC WICHITA	Signature: <u>Januell Maturay</u>						
FEB 2 3 2015	Title: Production Assistant						
,	IIIIe:						
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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.

W2395

Wahrmann 13-221

North Goodland

Goodland

None

September-14

	Casing				IRS	REMARKS
DATE	PSI	STATIC	MCF		OWN	(Maximum length 110 characters)
9/1/2014		5 18	3	11	0	
9/2/2014		5 18	8	11	0	
9/3/2014		5 18	8	11	0	
9/4/2014		5 11	8	11	0	
9/5/2014		5 1	8	11	0	
9/6/2014		5 18	3	11	0	
9/7/2014		5 18	8	11	0	
9/8/2014		5 18	3	11	0	
9/9/2014		5 18	3	11	0	
9/10/2014		5 1	8	11	0	
9/11/2014		5 18	3	11	0	
9/12/2014		5 18	3	11	0	
9/13/2014		5 18	3	11	0	
9/14/2014		5 18	3	11	0	
9/15/2014		5 18	3	11	0.5	
9/16/2014		5 18	3	11	0	
9/17/2014		5 18	3	11	0	
9/18/2014		5 18	3	11	0.5	
9/19/2014		5 18	3	11	0	
9/20/2014		5 18	3	11	0	
9/21/2014		5 18	3	11	0	
9/22/2014		5 18	3	11	0	
9/23/2014		5 18	3	11	0	
9/24/2014		5 18	3	11	0	
9/25/2014		5 18	3	11	0	
9/26/2014		5 18	3	11	0	
9/27/2014		5 18	3	11	0	
9/28/2014		5 18	3	11	0	
9/29/2014		5 1	8	11	0	
9/30/2014		5 18	3	11	0	shut in for state
10/1/2014		0 (	)	0	0	opened up

Total

330

KCC WICHITA

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W2395 Wahrmann 13-22H

North Goodland

Goodland

None

October-14

	Casing		<del></del>	HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
10/1/2014	25	38	0	24	opened up
10/2/2014	5	18	11	0	
10/3/2014	5	18	11	0	
10/4/2014	5	18	11	0	
10/5/2014	5	18	11	0	
10/6/2014	5	18	11	0	
10/7/2014	5	18	11	0	
10/8/2014	4	17	12	0	
10/9/2014	5	18	11	0	
10/10/2014	5	18	11	0	
10/11/2014	5	18	11	1	
10/12/2014	5	18	11	0	
10/13/2014	5	18	11	0	
10/14/2014	5	18	11	0	
10/15/2014	5	18	11	0	
10/16/2014	5	18	11	1	
10/17/2014	5	18	11	0	
10/18/2014	5	18	11	0	
10/19/2014	5	18	11	0	
10/20/2014	5	18	11	0	
10/21/2014	5	18	11	0	
10/22/2014	5	18	11	0	
10/23/2014	5	18	11	0	
10/24/2014	5	18	11	0	
10/25/2014	5	18	11	0	
10/26/2014	5	18	11	0	
10/27/2014	5	18	11	0	
10/28/2014	5	18	11	0	
10/29/2014	5	18	11	0	
10/30/2014	5	18	11	0	
10/31/2014	5	18	11	0	

Total

331

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Wahmann 18 22 HG

North Goodland

Goodland

None

November-14

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
11/1/2014	:	5 18	1	1 0	
11/2/2014	<u>:</u>	5 18	3 1	1 0	)
11/3/2014	:	5 18	1	1 0	)
11/4/2014	<del>:</del>	5 18	1	1 0	)
11/5/2014	;	5 18	3 1	1 0	)
11/6/2014	•	5 18	1	1 0	)
11/7/2014	:	5 18	1	1 0	)
11/8/2014	A	17	7 1	1 0	)
11/9/2014	4	1 17	<i>'</i> 1	1 0	)
11/10/2014		4 17	7 1	1 0	)
11/11/2014	4	1 17	' 1	1 0	)
11/12/2014	4	4 17	<sup>7</sup> 1	1 0	)
11/13/2014	4	17	,	9 0	)
11/14/2014	4	4 17	<sup>7</sup> 1	0 0	)
11/15/2014	4	<b>1</b> 17	,	9 0	)
11/16/2014	4	1 17	1	0 0	)
11/17/2014	4	4 17	1	1 0	)
11/18/2014	4	17	1	2 0	)
11/19/2014	4	4 17	1	1 0	)
11/20/2014	4	17	1	1 0	)
11/21/2014	4	4 17	<b>7</b> 1	1 0	)
11/22/2014	4	4 17	, I	1 0	)
11/23/2014		17	7 1	1 0	)
11/24/2014	4	4 17	<i>'</i> 1	1 0	)
11/25/2014	4	4 17	7 1	1 1.5	5 bp
11/26/2014	4	4 17	7 1	1 0	)
11/27/2014	4	4 17	,	1 0	)
11/28/2014	4	4 17	<i>'</i> 1	1 0	)
11/29/2014	4	4 17	' 1	1 0	)
11/30/2014	4	17	' 1	1 0	)
12/1/2014				C	)

Total

325

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