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

Type Test	::				- (	See Instruct	ions on Re	verse Side	)					
Ор	en Flo	w	86S1		<b>-</b>				4.01	N. 45				
Deliverabilty				Test Date: 9/29/2011				API No. 15 023-20627-00—						
Company Rosewood Resources, Inc.			· · — · ·	<del></del>			Lease Isernhagen					Well Number 21-26		
County Location Cheyenne NENW/4			Section 26		TWP 3S		RNG (E/ 41W	RNG (E/W) 41W			Acres Attributed 80			
Field St. Franc	cis		· <del>_</del> · <del>_</del>		Reservoi Niobrara			Gas Gathering Conn Branch Systems In				`		-
Completic 10/22/20		le			Plug Bac 1513'	k Total Dept	h	Packer Set at						
Casing Size Weight 2 7/8" 6.5#			Internal I 2.441	Diameter	Set at 1513'		Perforations 1381'		то 1413'					
Tubing Si	Ze		Weig	ht	Internal (	Diameter	Set at		Perforations			То		
Type Con Single (				··— <del></del>	Type Flui Dry Ga	d Production	n	<del></del> -	Pump Un	it or Traveling	Plunge	r? Yes	No	
	Thru		nulus / Tubir	ng)	-	% Carbon Dioxide			% Nitrogen			Gas Gravity - G <sub>g</sub> .6		
Vertical C 1413'		H)					sure Taps					Run) (Pr	over) Size	
–	Buildu	 ip:	Shut in	28	 20 11 <sub>at</sub> 1	Flange 11 at 11:20 (AM) PM) Taken			29	11:30 (AM)(PM)				
Well on L			Started 9-2	29	20 <u>11</u> at <u>1</u>	1:30	(PM)			20	11 at	1:20	(	AMX(PM)
	,				<u>,</u>	OBSERVE	D SURFAC	E DATA	,		Duration	n of Shut	in _24	Hours
Static / Dynamic Property	Ornice Meter Dynamic Size Prover Pressure		Differential in	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_{\pm})$ or $(P_{t})$ or $(P_{e})$		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			parg (r m)	miches ri <sub>2</sub> 0			psig psia 102 116.4		psig	psia				
Flow							57	71.4			24		0	
				1		FLOW STR	EAM ATTF	IBUTES						
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mold		Circle one; Meter or Prover Pressure psia		Press Extension P <sub>m</sub> x h	xtension Factor		Flowing Temperature Factor F <sub>II</sub>		ctor	viation Metered Flow R (Mcfd)		ow GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>m</sub>
					•	OW) (DELIV		•				-	)2 = 0.20	07
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> :	Choose formula 1 or	P <sub>a</sub> =		<del>%</del> (.	P <sub>c</sub> - 14.4) +	14.4 =	<del></del> :	T	(P <sub>d</sub> )	)' =	
$(P_e)^2 - (P_a)^2$ or $(P_e)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup> LOG of formuta 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 1. or 2. and divide P <sub>2</sub> -P		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (McId)	
				divided by: $P_c^2 + P_c$	y by:		Sidili	иго оюра						
Open Flo		••		Mcfd <b>©</b> 14	I.65 psia	<b></b>	Deliveral	aility			Mcfd <b>@</b>	14.65 ps	j .ia	
		igne	d authority, o	on behalf of the	·	states that h			o make th	e above repo				edge of
he facts s	tated t	here	in, and that s	said report is tru	e and correc	t. Executed	this the 2	8	day of D	ecember // //			······································	20 11 .
		-	Witness	(il any)		_ <del></del>		6	ben	aell	Company (		اللا	
			For Com	miestre	·						icked by		<del>R</del> F	CEIVE
			rur com	·······································						CHE	nana ay			<b></b>

exempt status under and that the forego correct to the best of equipment instal I hereby reques	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  Ding pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. Is a one-year exemption from open flow testing for the Isernhagen 21-26 unds that said well:
I further agree staff as necessary	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/28/11	Signature: Qunud Gulle  Title: Production Foreman

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.

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W360

Isernhagen 21-26

St. Francis

St. Francis

None

September-11

	Casing			I	IRS	REMARKS
DATE	PSI	STATIC	MCF	I	OOWN	(Maximum length 110 characters)
9/1/2011	60	73		18	0	
9/2/2011	60	74		17	0	
9/3/2011	59	73		18	0	
9/4/2011	59	73		18	0	
9/5/2011	59	73		18	0	
9/6/2011	59	73		18	0	
9/7/2011	60	72		18	0	
9/8/2011	60	74		15	0	
9/9/2011	59	73		16	0	
9/10/2011	60			16	0	
9/11/2011	60	73		15	0	
9/12/2011	60	73		14	0	
9/13/2011	47	73		14	0	
9/14/2011	59	72		14	0	
9/15/2011	59	72		14	0	
9/16/2011	59	72		15	0	
9/17/2011	59	72		16	0	
9/18/2011	59	72		16	0	
9/19/2011	54	72		17	0	
9/20/2011	59	72		16	0	
9/21/2011	50	72		17	0	
9/22/2011	58	72		16	0	
9/23/2011	51	71		17	0	
9/24/2011	59	71		17	0	
9/25/2011	59	72		16	0	
9/26/2011	59	72		16	0	
9/27/2011	55	72		18	0	
9/28/2011	61	68		19	0	
9/29/2011	102	68		0	24	si for state test
9/30/2011	56	69	ı	14	0	
10/1/2011	0			0	0	

Total 473

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Isernhagen 21-26

St. Francis

St. Francis

None

October-11

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
10/1/2011	58	71	13	} (	0
10/2/2011	52	73	12	! (	0
10/3/2011	60	73	12	) (	0
10/4/2011	59	73	12	! (	0
10/5/2011	60	73	12	) (	0
10/6/2011	57	71	14	ļ (	0
10/7/2011	58	74	11	. (	0
10/8/2011	60	73	12	. (	0
10/9/2011	60	73	12	<u>.</u> (	0
10/10/2011	50		12	! (	0
10/11/2011	58	77	10	) (	0
10/12/2011	45	72	12	! (	0
10/13/2011	55	69	14	ļ (	0
10/14/2011	55	70	13	} (	0
10/15/2011	56	70	14	<b>,</b> (	0
10/16/2011	38	71	14	ļ (	0
10/17/2011	57	71	13	} (	0
10/18/2011	57	71	13	3 (	0
10/19/2011	57	74	11		0
10/20/2011	58	73	12	! (	0
10/21/2011	58	71	13	3 (	0
10/22/2011	56	72	12	! (	0
10/23/2011	56	72	12	) (	0
10/24/2011	51	72	13	3 (	0
10/25/2011	50	72	13	} (	0
10/26/2011	50	72	13	3 (	0
10/27/2011	57	71	13	3 (	0
10/28/2011	57	71	13	3 (	0
10/29/2011	58	71	13		0
10/30/2011	53	71	13	} (	0
10/31/2011	51	71	13	3 (	0

389

Total

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W360

Isernhagen 21-26

St. Francis

St. Francis

None

November-11

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN	(Maximum length 110 characters)
11/1/2011	58			13	0	·
11/2/2011	57	70		13	0	
11/3/2011	45	70		13	0	
11/4/2011	45	70		13	0	
11/5/2011	45	70		13	0	
11/6/2011	57	70		13	0	
11/7/2011	63	71		13	0	
11/8/2011	57	73		11	0	
11/9/2011	43	70		13	0	
11/10/2011	57	70		14	0	
11/11/2011	57	70		13	0	
11/12/2011	50	70		14	0	
11/13/2011	57	70		14	0	
11/14/2011	57	70		13	0	
11/15/2011	54	69		14	0	
11/16/2011	55	68		14	0	
11/17/2011	55	69		14	0	
11/18/2011	56	69		14	0	
11/19/2011	53	69		14	0	
11/20/2011	53	69		14	0	
11/21/2011	56	68		14	0	
11/22/2011	57	68		14	0	
11/23/2011	58	69		14	0	
11/24/2011	58	70		14	0	
11/25/2011	57	69		14	0	
11/26/2011	57	69		14	0	
11/27/2011	57	69		14	0	
11/28/2011	52	69		14	0	
11/29/2011	57	69		14	0	
11/30/2011	56	70		13	0	
12/1/2011	0			0	0	

Total 406

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