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

Type Test			m 65		(	'See Instruct	tions on Re	verse Side	)					
Open Flow							4.50							
Deliverability				Test Date: 9/28/2011				API No. 15 023-20631-00 - ()						
Company Rosewood Resources, Inc.							Lease Rudolph					Well Number 33-09		
County Location Cheyenne NWSE/4			Section 9				RNG (E/W) 41W			Acres Attributed				
Field St. Franc		•		<del>, , , , , , , , , , , , , , , , , , , </del>		Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.				
Completic 10/21/20		е			Plug Bac 1540'	Plug Back Total Depth 1540'				et at	-			
Casing Size Weight			Internal I 2.441	Internal Diameter Set at 2.441 1540'			Perforations 1421'			3'				
Tubing Si	ize		Welgh	t	Internal I	Internal Diameter Set at			Perforations					
Type Con Single (					Type Flui	Type Fluid Production			Pump Unit or Traveling Plungers			s No	<b>)</b>	
Producing Annulus	-	(An	nulus / Tubing	<u>j)</u>	% C	% Carbon Dioxide				% Nitrogen			Gas Gravity - G <sub>g</sub> .6	
Vertical D		1)				Pressure Taps					(Meter Run) (Prover) Size			
1453'						Flan	ge				2"			
Pressure	Buildu	-	Shut in 9-2			11 at 10:15 (PM) Taken 9-							(PM)	
Well on L	ine:		Started 9-28	2	0 11 at 1	0:30	(AM) (PM)	Taken 9-	29	20	11 at 11:1	<u> </u>	(AM)(PM)	
r			1		· · · • • · · · · · · · · · · · · · · ·	OBSERVE	D SURFAC				Duration of Sh	ut-in 24	4 Hours	
Static / Orifice Meter  Dynamic Size Prover Pres		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential In Inches H <sub>2</sub> 0	Temperature Temperature		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>n</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)		puid Produced (Baπels)		
Shut-In			, ,				psig 138	152.4	psig	psia				
Flow							44	58.4			24	0		
					<del></del>	FLOW STR	REAM ATTE	RIBUTES	·····				<del> </del>	
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension	tension Factor		Flowing Temperature Factor F <sub>11</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	(Cubic Ban	Feet/	Flowing Fluid Gravity G_	
										59				
					(OPEN FL	OW) (DELIV	ERABILITY	/) CALCUL	ATIONS		(1	$P_a)^2 = 0$	.207	
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	<u>:</u>	P <sub>d</sub> =	·	% (	P <sub>c</sub> - 14.4) +	14.4 =	<u> </u> :     .		P <sub>d</sub> ) <sup>2</sup> =	<u></u>	
$(P_n)^2 - (P_n)^2$ or $(P_n)^2 - (P_q)^2$		(F	P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. P <sup>2</sup> - P <sup>2</sup> LOG of formula 2. P <sup>2</sup> - P <sup>2</sup> 1. or 2. and divide		P,2. P,2	Backpressure Curve Slope = 'n'oror Assigned		n x LOG		Antilog	ם	Open Flow reliverability als R x Antilog (Mcfd)	
				divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	z by:		Stand	dard Slope						
Open Flo	w			Mcfd @ 14.	65 psla		Deliveral	bility		1	Mcfd @ 14.65	psia		
		_		n behalf of the			·	10	_	e above repo	rt and that he	has kno	owledge of . 20 11 .	
<del></del>	<del></del>		Witness (i	f any)		<del></del>		_<	DU	MULL.	COUL	$\mathcal{W}$	$\mathcal{U}_{-}$	
			For Comm			<del></del>					ked by		RECEIV	
											•			

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exempt status under and that the forego correct to the best of equipment insta	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. St a one-year exemption from open flow testing for the Rudolph 33-9
gas well on the gro	unds that said well:
•	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	<del></del>
	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 signed and dated on the front side as though it was a verified report of annual test results.

APR 2 4 2012 KCC WICHITA W441

Rudolph 33-9

St. Francis

St. Francis

None

September-11

	Casing		,	HRS	REMARKS
DATE	PSI	STATIC MCF		DOWN	(Maximum length 110 characters)
9/1/2011	44	59	11	0	
9/2/2011	42	59	11	0	
9/3/2011	43	59	11	0	
9/4/2011	44	59	11	0	
9/5/2011	44	59	11	0	
9/6/2011	42	. 59	11	0	
9/7/2011	42	. 58	11	0	
9/8/2011	46	60	11	0	
9/9/2011	46	59	11	0	
9/10/2011	44	59	11	0	
9/11/2011	44	59	11	0	
9/12/2011	46	59	11	0	
9/13/2011	46	59	11	0	
9/14/2011	44	58	11	0	
9/15/2011	44	58	11	0	
9/16/2011	42	58	11	0	
9/17/2011	49	58	11	0	
9/18/2011	49	58	11	0	
9/19/2011	42	58	11	0	
9/20/2011	49	59	11	0	
9/21/2011	41	57	11	0	
9/22/2011	41	58	11	0	
9/23/2011	38	58	11	0	
9/24/2011	38	58	11	0	
9/25/2011	37	59	11	0	
9/26/2011	44	58	11	0	
9/27/2011	46	58	11	0	
9/28/2011	138	59	0	24	si for state test
9/29/2011	42	68	16	0	
9/30/2011	46	58	12	0	
10/1/2011	0	0	0	0	

Total 325

W441 Rudolph.33-9 St. Francis St. Francis None October-11

<del></del>	Casing		I	IRS	REMARKS
DATE	PSI	STATIC MCF	Ľ	DOWN	(Maximum length 110 characters)
10/1/2011	42	. 59	12	0	
10/2/2011	44	60	12	0	
10/3/2011	44	60	11	0	
10/4/2011	48	59	11	0	
10/5/2011	43	59	11	0	
10/6/2011	48	58	11	0	
10/7/2011	46	60	11	0	
10/8/2011	42	59	11	0	
10/9/2011	42	. 59	11	0	
10/10/2011	43	59	11	0	
10/11/2011	44	65	11	0	
10/12/2011	42	58	11	0	
10/13/2011	44	57	11	0	
10/14/2011	44	57	11	0	
10/15/2011	42	57	11	0	
10/16/2011	40	57	11	0	
10/17/2011	41	57	11	0	
10/18/2011	41	57	11	0	
10/19/2011	44	61	11	0	
10/20/2011	41	58	11	0	
10/21/2011	42	. 57	11	0	
10/22/2011	42	57	11	0	
10/23/2011	42	. 57	11	0	
10/24/2011	42	57	11	0	
10/25/2011	47	57	11	0	
10/26/2011	43	57	11	0	
10/27/2011	49	56	11	0	
10/28/2011	40	56	11	0	
10/29/2011	42	56	11	0	
10/30/2011	41	56	11	0	•
10/31/2011	44	56	11	0	

Total 343

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KCC WICHITA

W441
Rudolph33-9',

St. Francis

St. Francis

None

November-11

	<u> </u>			una 1	PELANKO
	Casing			HRS	REMARKS
DATE	PSI	STATIC MO		DOWN	(Maximum length 110 characters)
11/1/2011	42		11	0	
11/2/2011	43		11	0	
11/3/2011	39		11	0	
11/4/2011	40		11	0	
11/5/2011	40		11	0	
11/6/2011	39		11	0	
11/7/2011	47		11	0	
11/8/2011	42		11	0	
11/9/2011	45		11	0	
11/10/2011	42	• -	11	0	
11/11/2011	40		11	0	
11/12/2011	45	55	11	0	
11/13/2011	42	55	11	0	
11/14/2011	43	55	11	0	
11/15/2011	38	54	11	0	
11/16/2011	42	54	11	0	
11/17/2011	47	54	11	0	
11/18/2011	38	54	11	0	
11/19/2011	42	55	11	0	
11/20/2011	41	54	11	0	
11/21/2011	46	54	11	0	
11/22/2011	47	54	11	0	
11/23/2011	48	55	11	0	
11/24/2011	48	55	11	0	
11/25/2011	47	55	11	0	
11/26/2011	44	55	11	0	
11/27/2011	44	55	11	0	
11/28/2011	41	55	11	0	
11/29/2011	45	55	11	0	
11/30/2011	48	55	11	0	
12/1/2011	C	0	0	0	

Total 330