

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **AST**
 Deliverability

Test Date:
5/10/2013

API No. 15
023-20627-0000

Company Rosewood Resources, Inc.			Lease Isernhagen			Well Number 21-26		
County Cheyenne	Location NENW/4	Section 26	TWP 3S	RNG (E/W) 41W	Acres Attributed 80			
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.				
Completion Date 10/22/2005		Plug Back Total Depth 1513'		Packer Set at				
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1513'	Perforations 1381'	To 1413'			
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To			
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? flowing		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen		Gas Gravity - G _g .6		
Vertical Depth(H) 1413'		Pressure Taps Flange			(Meter Run) (Prover) Size 2"			
Pressure Buildup:	Shut in 5-9	20 13	at 11:20	(AM) (PM) Taken	5-10	20 13	at 11:30	(AM) (PM)
Well on Line:	Started 5-10	20 13	at 11:30	(AM) (PM) Taken	5-11	20 13	at 1:20	(AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						186	200.4				
Flow						52	66.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension √ P _m x h	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						15		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207 (P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	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 _w ²	LOG of formula 1. or 2. and divide by: P _c ² - P _w ²	Backpressure Curve Slope = "n" ----- or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 21 day of November, 20 13.

Witness (if any)

For Commission

Samuel Martinez

For Company
Checked by

KCC WICHITA

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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 Rosewood Resources, 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 Isernhagen 21-26 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: 11/21/13

Signature: *Dannell Martiney*
Title: Production Assistant

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
 May-13

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
5/1/2013	56	69		13		
5/2/2013	62	75		12		
5/3/2013	53	66		13		
5/4/2013	48	61		14		
5/5/2013	51	64		15		
5/6/2013	49	62		15		
5/7/2013	49	62		15		
5/8/2013	54	67		14		
5/9/2013	58	71		10		si for state test - cp 160
5/10/2013	26	39		0		24 reopened - cp 186
5/11/2013	59	72		14		
5/12/2013	55	68		13		
5/13/2013	59	72		13		
5/14/2013	64	77		12		
5/15/2013	87	100		12	2.5	
5/16/2013	72	85		6		
5/17/2013	55	68		12		
5/18/2013	56	69		15		
5/19/2013	70	83		16		
5/20/2013	65	78		16		
5/21/2013	47	60		14		
5/22/2013	54	67		12	14	
5/23/2013	106	119		5	10	
5/24/2013	101	114		1	4	
5/25/2013	93	106		2		
5/26/2013	87	100		5		
5/27/2013	84	97		8		
5/28/2013	76	89		7		
5/29/2013	64	77		8		
5/30/2013	53	66		9		
5/31/2013	51	64		15		

Total 336

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W360
 Isernhagen 21-26
 St. Francis
 St. Francis
 None
 June-13

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	45	58		17	
6/2/2013	50	63		17	
6/3/2013	47	60		16	
6/4/2013	46	59		17	
6/5/2013	60	73		16	
6/6/2013	66	79		15	
6/7/2013	50	63		13	
6/8/2013	52	65		15	
6/9/2013	51	64		16	
6/10/2013	60	73		16	2
6/11/2013	72	85		8	1
6/12/2013	72	85		7	
6/13/2013	54	67		7	
6/14/2013	56	69		10	
6/15/2013	55	68		10	
6/16/2013	59	72		9	
6/17/2013	50	63		10	
6/18/2013	48	61		13	
6/19/2013	42	55		17	
6/20/2013	48	61		16	
6/21/2013	54	67		15	calibrated meter
6/22/2013	73	86		7	
6/23/2013	67	80		6	
6/24/2013	65	78		5	
6/25/2013	75	88		6	
6/26/2013	70	83		6	
6/27/2013	61	74		7	
6/28/2013	50	63		12	
6/29/2013	51	64		15	
6/30/2013	50	63		15	
7/1/2013					

Total

359

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W360

Isernhagen 21-26

St. Francis

St. Francis

None

July-13

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
7/1/2013	51	64		13		
7/2/2013	51	64		15		
7/3/2013	46	59		12		
7/4/2013	46	59		14		
7/5/2013	46	59		14		
7/6/2013	48	61		11		
7/7/2013	66	79		8		
7/8/2013	64	77		9		
7/9/2013	65	78		10		
7/10/2013	53	66		12		
7/11/2013	58	71		9		
7/12/2013	64	77		9		
7/13/2013	66	79		6	2.5	
7/14/2013	69	82		6		
7/15/2013	50	63		7		
7/16/2013	54	67		12		
7/17/2013	53	66		15		
7/18/2013	77	90		13		
7/19/2013	67	80		5		
7/20/2013	66	79		4		
7/21/2013	74	87		4		
7/22/2013	71	84		5		
7/23/2013	60	73		6		
7/24/2013	58	71		6		
7/25/2013	65	78		4		
7/26/2013	48	61		5		
7/27/2013	53	66		11		
7/28/2013	55	68		12		
7/29/2013	54	67		13		
7/30/2013	53	66		15	3.5	
7/31/2013	84	97		2	5.5	

Total

287

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