

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow  **SI**  
 Deliverability

Test Date:  
7/15/2007

API No. 15  
023-20608-00 -00

Company Rosewood Resources, Inc.		Lease Isernhagen		Well Number 4-23	
County Cheyenne	Location SWSE/4	Section 23	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 5/27/2005		Plug Back Total Depth 1449'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1449'	Perforations 1250'	To 1282'
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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> .6	
Vertical Depth(H) 1282'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7/15 20 07 at 8:45 (AM) (PM) Taken 7/16 20 07 at 3:15 (AM) (PM)					
Well on Line: Started 7/16 20 07 at 3:15 (AM) (PM) Taken 7/17 20 07 at 9:45 (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						230	244.4				
Flow						40	54.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						10		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207

(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> = _____	(P <sub>w</sub> ) <sup>2</sup> = _____	P <sub>d</sub> = _____ %	(P <sub>c</sub> - 14.4) + 14.4 = _____				
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 25 day of September, 2007

Witness (if any)

For Commission

For Company

Checked by

*Tom W. [Signature]*  
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NOV 02 2007

CONSERVATION DIVISION  
WICHITA, KS

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.

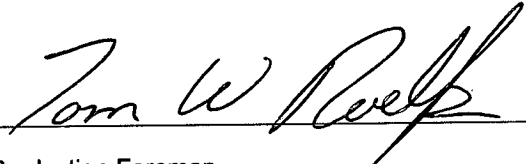
I hereby request a one-year exemption from open flow testing for the Isernhagen 4-23 gas well on the grounds that said well:

(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: 9/25/2007

Signature:   
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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CONSERVATION DIVISION  
WICHITA, KS

W355

Isernhagen 04-23

St. Francis

St. Francis

None

July-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2007		48	10	0	
7/2/2007		48	10	0	
7/3/2007		49	11	0	bp
7/4/2007		47	10	0	
7/5/2007	50	47	10	0	
7/6/2007		47	10	0	
7/7/2007		52	10	0	
7/8/2007		47	10	0	
7/9/2007		162	5	12	
7/10/2007		233	3	15	
7/11/2007		117	12	12	bp
7/12/2007		76	15	0	
7/13/2007		52	12	0	
7/14/2007		48	11	0	
7/15/2007	50	48	11	0	bp
7/16/2007		137	4	0	si 24 hr test cp - 230
7/17/2007		52	15	0	
7/18/2007		48	12	0	
7/19/2007		46	11	0	
7/20/2007		48	11	0	
7/21/2007		59	11	0	
7/22/2007		59	11	0	
7/23/2007		59	11	0	
7/24/2007		60	11	4	
7/25/2007		50	11	0	
7/26/2007		49	10	0	
7/27/2007		49	11	0	
7/28/2007		49	11	0	
7/29/2007		49	11	0	
7/30/2007		48	10	0	bp
7/31/2007		49	10	0	

Total

321

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WICHITA, KS

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Isernhagen 04-23

St. Francis

St. Francis

None

August-07

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
8/1/2007		49	10	0	
8/2/2007		49	10	0	
8/3/2007		49	10	0	
8/4/2007		50	10	0	
8/5/2007		52	10	0	
8/6/2007		52	10	0	
8/7/2007		50	10	0	
8/8/2007		54	10	0	0 bp
8/9/2007		153	10	12	
8/10/2007		123	8	0	
8/11/2007		117	10	0	
8/12/2007		98	10	0	
8/13/2007		90	10	0	
8/14/2007		90	10	0	0 bp
8/15/2007	105	93	10	0	
8/16/2007		59	11	0	
8/17/2007		59	11	0	
8/18/2007		59	11	0	
8/19/2007		55	10	0	0 bp
8/20/2007		56	10	0	
8/21/2007		55	10	0	
8/22/2007	40	54	10	0	
8/23/2007		56	10	0	
8/24/2007		56	10	0	
8/25/2007		58	10	0	
8/26/2007		56	10	0	
8/27/2007		63	10	0	0 bp
8/28/2007		63	10	0	
8/29/2007		76	10	0	
8/30/2007		76	10	0	
8/31/2007		76	10	0	

Total

311

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CONSERVATION DIVISION  
WICHITA, KS

W355

Isernhagen 04-23

St. Francis

St. Francis

None

September-07

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
9/1/2007		56	10	0
9/2/2007		54	10	0
9/3/2007		56	10	0
9/4/2007		56	10	0
9/5/2007		123	7	7
9/6/2007		92	12	0
9/7/2007		89	11	3
9/8/2007		58	10	0
9/9/2007		54	10	0
9/10/2007		54	10	0 bp
9/11/2007		54	10	0
9/12/2007		55	10	0
9/13/2007		62	10	0
9/14/2007		65	10	0
9/15/2007		75	9	0
9/16/2007		80	9	0
9/17/2007		86	9	0
9/18/2007		69	10	0
9/19/2007		76	10	0
9/20/2007		77	10	0
9/21/2007		68	10	0
9/22/2007		69	10	0
9/23/2007		73	10	0
9/24/2007		65	10	0 bp
9/25/2007		52	10	0
9/26/2007		50	10	0
9/27/2007		75	9	0
9/28/2007	90	75	10	0
9/29/2007		76	10	0
9/30/2007		76	10	0
10/1/2007				0

Total

296

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