

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

Type Test:

Open Flow  SI  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/8/2007

API No. 15  
15-023-20587 - 00-00

Company Rosewood Resources			Lease Isernhagen			Well Number 2-23					
County Cheyenne		Location NWSE		Section 23		TWP 3S		RNG (E/W) 41W		Acres Attributed 80	
Field St. Francis				Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.					
Completion Date 9/10/2004				Plug Back Total Depth 1508'			Packer Set at				
Casing Size 4 1/2"		Weight 10.5#		Internal Diameter 4.052		Set at 1514'		Perforations 1316'		To 1352'	
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 Flowing				
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide			% Nitrogen		Gas Gravity - G <sub>g</sub> .6		
Vertical Depth(H) 1352'				Pressure Taps Flange			(Meter Run) (Prover) Size 2"				
Pressure Buildup:		Shut in 7/8		20 07 at 9:00		(AM) (PM) Taken 7/9		20 07 at 11:15		(AM) (PM)	
Well on Line:		Started 7/9		20 07 at 11:15		(AM) (PM) Taken 7/10		20 07 at 10:00		(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>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						230	244.4				
Flow						120	134.4			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>
						23		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>g</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 = \_\_\_\_\_ :

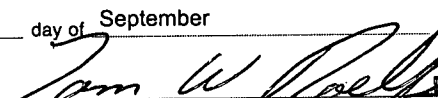
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>w</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	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 28 day of September 20 07

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Commission

  
 For Company  
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 Checked by

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.

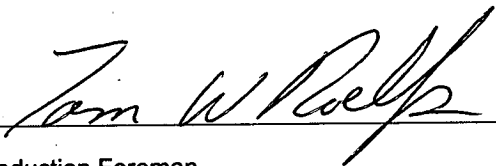
I hereby request a one-year exemption from open flow testing for the Isernhagen 2-23 gas well on the grounds that said well:

(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: 9/28/2007

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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Isernhagen 02-23

St. Francis

St. Francis

None

July-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2007		123		23	0
7/2/2007		122		23	0
7/3/2007		123		23	0 bp
7/4/2007		123		23	0
7/5/2007		122		23	0
7/6/2007		122		23	0
7/7/2007		125		23	0
7/8/2007		123		23	0 si 105 cp
7/9/2007		167		16	12 open 230 cp
7/10/2007		236		22	0
7/11/2007		160		28	12 bp
7/12/2007		134		27	0
7/13/2007		130		24	0
7/14/2007		129		24	0
7/15/2007		128		24	0 bp
7/16/2007		128		24	0
7/17/2007		128		24	0
7/18/2007		123		24	0
7/19/2007		123		24	0
7/20/2007		123		24	0
7/21/2007		124		24	0
7/22/2007		123		24	0
7/23/2007		123		24	0
7/24/2007		123		23	4
7/25/2007		123		23	0
7/26/2007		123		23	0
7/27/2007		123		23	0
7/28/2007		123		23	0
7/29/2007		123		23	0
7/30/2007		121		23	0 bp
7/31/2007		120		23	0

Total

725

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Isernhagen 02-23

St. Francis

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None

August-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2007		118		23	0
8/2/2007		120		23	0
8/3/2007		120		23	0
8/4/2007		118		23	0
8/5/2007		121		23	0
8/6/2007		120		23	0
8/7/2007		121		23	0
8/8/2007		119		23	0 bp
8/9/2007		160		23	12
8/10/2007		152		22	0
8/11/2007		117		23	0
8/12/2007		102		22	0
8/13/2007		101		23	0
8/14/2007		91		30	0 bp
8/15/2007	120	132		23	0
8/16/2007		119		27	0
8/17/2007		119		27	0
8/18/2007		119		23	0
8/19/2007		120		23	0 bp
8/20/2007		119		23	0
8/21/2007		118		23	0
8/22/2007		117		23	0
8/23/2007		117		23	0
8/24/2007		117		23	0
8/25/2007		118		23	0
8/26/2007		117		23	0
8/27/2007		120		23	0 bp
8/28/2007		137		23	0
8/29/2007		120		22	0
8/30/2007		120		22	0
8/31/2007		117		23	0

Total

724

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Isernhagen 02-23

St. Francis

St. Francis

None

September-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2007		120		22	0
9/2/2007		122		22	0
9/3/2007		119		22	0
9/4/2007		119		22	0
9/5/2007		154		21	7
9/6/2007		130		23	0
9/7/2007		126		22	3
9/8/2007		119		22	0
9/9/2007		122		22	0
9/10/2007		120		22	0 bp
9/11/2007		119		22	0
9/12/2007		119		22	0
9/13/2007		118		22	0
9/14/2007		120		22	0
9/15/2007		120		22	0
9/16/2007		126		22	0
9/17/2007		120		22	0
9/18/2007		122		22	0
9/19/2007		122		22	0
9/20/2007		124		22	0
9/21/2007		118		22	0
9/22/2007		120		22	0
9/23/2007		121		22	0
9/24/2007		120		22	0
9/25/2007		117		22	0 bp
9/26/2007		118		22	0
9/27/2007	110	122		22	0
9/28/2007		122		22	0
9/29/2007		120		22	0
9/30/2007		122		22	0
10/1/2007					0

Total

660

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