

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

Type Test:

- Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/17/2009

API No. 15  
023-20628-0000

Company Rosewood Resources, Inc.		Lease Isernhagen		Well Number 12-25	
County Cheyenne	Location SWNW/4	Section 25	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 1451'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1451'	Perforations 1341'	To 1373'
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="radio"/> No flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1373'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-16 20 09 at 9:20		(AM) (PM) Taken 7-17 20 09 at 9:35		(AM) (PM)	
Well on Line: Started 7-17 20 09 at 9:35		(AM) (PM) Taken 7-18 20 09 at 10:20		(AM) (PM)	

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	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						200	214.4				
Flow						211	225.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>c</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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						53		

### (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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow

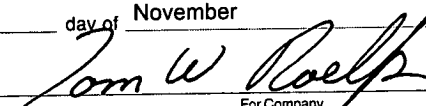
Mcf/d @ 14.65 psia

Deliverability

Mcf/d @ 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 18 day of November, 20 09.

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

  
For Company

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

Checked by

**NOV 30 2009**

**KCC WICHITA**

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.

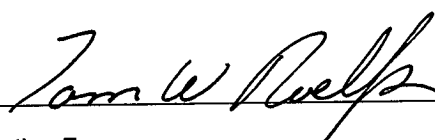
I hereby request a one-year exemption from open flow testing for the Isernhagen 12-25 gas well on the grounds that said well:

(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: 11/18/09

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 12-25

St. Francis

St. Francis

None

July-09

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2009		107		52	0
7/2/2009		107		52	0
7/3/2009		107		53	0
7/4/2009		107		52	0
7/5/2009		107		53	0
7/6/2009		107		53	0
7/7/2009		107		53	0
7/8/2009		170		18	6
7/9/2009		108		0	3
7/10/2009		107		52	0
7/11/2009		107		52	0
7/12/2009		107		55	0
7/13/2009		107		52	0
7/14/2009		107		54	0
7/15/2009		108		54	0
7/16/2009	200	108		54	0 shut in for test
7/17/2009		108		23	0
7/18/2009	211	62		0	0 open
7/19/2009		108		44	0
7/20/2009		107		29	7
7/21/2009		108		39	0
7/22/2009		107		53	0
7/23/2009		16-Apr		51	0
7/24/2009		107		54	0
7/25/2009		108		52	0
7/26/2009		107		51	0
7/27/2009		108		52	4
7/28/2009		108		53	0
7/29/2009		108		52	0
7/30/2009		108		48	0
7/31/2009		107		48	0

Total

1408

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Isernhagen 12-25

St. Francis

St. Francis

None

August-09

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
8/1/2009		107		52	0	
8/2/2009		107		52	0	
8/3/2009		107		46	0	
8/4/2009		108		53	0	
8/5/2009		108		53	0	
8/6/2009		107		43	0	
8/7/2009		107		51	0	
8/8/2009		107		53	0	
8/9/2009		107		53	0	
8/10/2009		107		54	0	
8/11/2009		107		54	0	
8/12/2009		107		55	0	
8/13/2009		107		55	0	
8/14/2009		107		54	0	
8/15/2009		107		54	0	
8/16/2009		107		54	0	
8/17/2009		134		22	0	
8/18/2009		136		0	0	
8/19/2009		137		0	0	
8/20/2009		107		21	0	
8/21/2009		107		46	0	
8/22/2009		107		49	4	
8/23/2009		118		38	0	
8/24/2009		108		38	0	
8/25/2009		109		19	0	
8/26/2009		107		47	0	
8/27/2009		108		54	0	
8/28/2009		107		54	0	
8/29/2009		127		54	0	
8/30/2009		107		39	3	
8/31/2009		107		53	0	

Total

1370

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Isernhagen 12-25

St. Francis

St. Francis

None

September-09

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
9/1/2009	0	108		54	0	
9/2/2009	0	108		54	0	
9/3/2009	0	108		52	0	
9/4/2009	0	112		28	6	
9/5/2009	0	108		52	0	
9/6/2009	0	108		53	0	
9/7/2009	0	108		53	0	
9/8/2009	0	108		53	0	
9/9/2009	0	107		52	0	
9/10/2009	0	108		53	0	
9/11/2009	0	108		54	0	
9/12/2009	0	108		54	0	
9/13/2009	0	108		49	1.5	
9/14/2009	0	107		54	0	
9/15/2009	0	107		53	0	
9/16/2009	0	107		54	0	
9/17/2009	0	108		55	0	
9/18/2009	0	108		55	0	
9/19/2009	0	107		55	0	
9/20/2009	0	107		55	0	
9/21/2009	0	107		54	0	
9/22/2009	0	108		55	0	
9/23/2009	0	108		55	0	
9/24/2009	0	107		55	0	
9/25/2009	0	110		34	6	
9/26/2009	0	112		13	0	
9/27/2009	0	109		33	0	
9/28/2009	0	108		40	0	
9/29/2009	0	108		52	0	
9/30/2009	0	108		35	8	
10/1/2009	0	0		0	0	

Total

1468

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