

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/15/2007

API No. 15  
023-20627-00-00

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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1413'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
Pressure Buildup: Shut in 7/15 20 07 at 9:00 (AM) (PM)		Taken 7/16 20 07 at 11:15 (AM) (PM)			
Well on Line: Started 7/16 20 07 at 11:15 (AM) (PM)		Taken 7/17 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 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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						225	239.4				
Flow						210	224.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>v</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>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						42		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

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

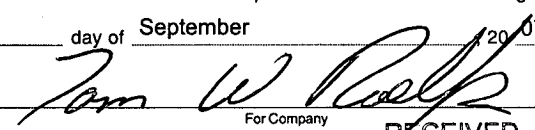
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ :

(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: $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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  
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Checked by \_\_\_\_\_

NOV 02 2007

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.

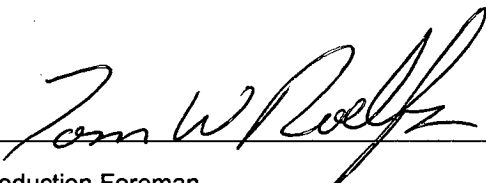
I hereby request a one-year exemption from open flow testing for the Isernhagen 21-26 gas well on the grounds that said well:

(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: 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

W360  
 Isernhagen 21-26  
 St. Francis  
 St. Francis  
 None  
 July-07

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
7/1/2007		145	41	0		
7/2/2007		145	41	0		
7/3/2007	220	142	37	0	bp	
7/4/2007		145	41	0		
7/5/2007		144	42	0		
7/6/2007		142	41	0		
7/7/2007		143	41	0		
7/8/2007		144	41	0		
7/9/2007		162	24	12		
7/10/2007		232	4	15		
7/11/2007		144	12	12	bp	
7/12/2007		144	38	0		
7/13/2007		144	42	0		
7/14/2007		143	42	0		
7/15/2007	220	143	42	0	bp	
7/16/2007		149	14	0	si 24 hr test	cp - 225
7/17/2007		145	27	0		
7/18/2007		145	42	0		
7/19/2007		146	42	0		
7/20/2007		145	42	0		
7/21/2007		145	42	0		
7/22/2007		146	42	0		
7/23/2007		145	42	0		
7/24/2007		142	37	4		
7/25/2007		143	42	0		
7/26/2007		143	42	0		
7/27/2007		143	42	0		
7/28/2007		144	39	0		
7/29/2007		143	40	0		
7/30/2007		143	42	0	bp	
7/31/2007		144	42	0		

Total

1148

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CONSERVATION DIVISION  
 WICHITA, KS

W360

Isernhagen 21-26

St. Francis

St. Francis

None

August-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2007		145	42	0	
8/2/2007		144	42	0	
8/3/2007		144	42	0	
8/4/2007		145	42	0	
8/5/2007		142	42	0	
8/6/2007		142	42	0	
8/7/2007		144	42	0	
8/8/2007		143	42	0	0 bp
8/9/2007		153	42	12	
8/10/2007		144	13	0	
8/11/2007		144	38	0	
8/12/2007		144	42	0	
8/13/2007		143	42	0	0 bp
8/14/2007	210	142	42	0	
8/15/2007		143	42	0	
8/16/2007		143	41	0	
8/17/2007		143	41	0	
8/18/2007		142	42	0	
8/19/2007		142	42	0	0 bp
8/20/2007		142	42	0	
8/21/2007		143	42	0	
8/22/2007	195	143	42	0	
8/23/2007		143	42	0	
8/24/2007		143	42	0	
8/25/2007		142	42	0	
8/26/2007		143	42	0	
8/27/2007		142	42	0	0 bp
8/28/2007		142	42	0	
8/29/2007		136	40	0	
8/30/2007		136	40	0	
8/31/2007		136	40	0	

Total

1261

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W360

Isernhagen 21-26

St. Francis

St. Francis

None

September-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2007		122	36	0	
9/2/2007		126	35	0	
9/3/2007		115	34	0	
9/4/2007		115	34	0	
9/5/2007		142	26	7	
9/6/2007		142	31	0	
9/7/2007		139	32	3	
9/8/2007		123	36	0	
9/9/2007		125	35	0	
9/10/2007		115	32	0	0 bp
9/11/2007		108	31	0	
9/12/2007	100	108	31	0	
9/13/2007		109	31	0	
9/14/2007		110	31	0	
9/15/2007		113	30	0	
9/16/2007		116	30	0	
9/17/2007		114	30	0	
9/18/2007		108	30	0	
9/19/2007		111	29	0	
9/20/2007		113	29	0	
9/21/2007		106	29	0	
9/22/2007		112	30	0	
9/23/2007		111	30	0	
9/24/2007		109	29	0	0 bp
9/25/2007		101	28	0	
9/26/2007		99	28	0	
9/27/2007		107	28	0	
9/28/2007	120	107	28	0	
9/29/2007		106	28	0	
9/30/2007		106	28	0	
10/1/2007				0	

Total

919

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