

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
8/12/08

API No. 15  
181-20528-00 - 00

Company Rosewood Resources, Inc.		Lease Milliken		Well Number 21-18	
County Sherman	Location NENW/4	Section 18	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodand		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		<b>RECEIVED</b> KANSAS CORPORATION COMMISSION  <b>OCT 21 2008</b>  CONSERVATION DIVISION WICHITA, KS
Completion Date 6/7/08		Plug Back Total Depth 1264'	Packer Set at		
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1264'	Perforations 1044'	To 1074'
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	Gas Gravity - G <sub>g</sub> .6
Vertical Depth(H) 1280'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	

Pressure Buildup: Shut in \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_ (AM) (PM) Taken \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_ (AM) (PM)  
Well on Line: Started 8-12 08 3:30 (AM) ( PM) Taken 8-13 20 08 at 4:05 (AM) ( PM)

### OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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											
Flow						25	39.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>d</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

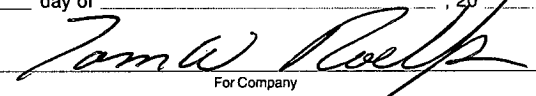
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>o</sub>)<sup>2</sup> = \_\_\_\_\_

(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 $\left[ \frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]$	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 15 day of October, 2008

\_\_\_\_\_  
Witness (if any)  
  
\_\_\_\_\_  
For Commission

  
\_\_\_\_\_  
For Company  
  
\_\_\_\_\_  
Checked by

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 Milliken 21-18 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: 10-15-08

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CONSERVATION DIVISION  
WICHITA, KS

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.

W2582  
 Milliken 21-18  
 North Goodland  
 Goodland  
 None  
 August-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2008					
8/2/2008					
8/3/2008					
8/4/2008					
8/5/2008					
8/6/2008					
8/7/2008					
8/8/2008					
8/9/2008					
8/10/2008					
8/11/2008					
8/12/2008				0	1st gas 8-12-08 3:30pm 25 mcf @ 50#cp
8/13/2008				0	
8/14/2008				0	
8/15/2008	59	72	45	0	
8/16/2008	59	72	44	0	
8/17/2008	59	72	43	0	
8/18/2008	59	72	43	0	
8/19/2008	59	72	43	0	
8/20/2008	58	71	44	0	
8/21/2008	58	71	43	7	
8/22/2008	58	71	43	0	
8/23/2008	58	71	43	0	
8/24/2008	58	71	43	0	
8/25/2008	58	70	43	0	
8/26/2008	57	70	43	0	
8/27/2008	57	70	43	0	
8/28/2008	57	70	43	0	
8/29/2008	57	70	43	0	
8/30/2008	57	70	43	0	
8/31/2008	57	70	43	0	

Total

735

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W2582  
 Milliken 21-18  
 North Goodland  
 Goodland  
 None  
 September-08

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
9/1/2008	57	70	43	0		
9/2/2008	57	70	43	0		
9/3/2008	57	70	42	0		
9/4/2008	57	70	42	0		
9/5/2008	57	70	26	0		
9/6/2008	56	69	43	0		
9/7/2008	56	69	43	0		
9/8/2008	56	69	43	0		
9/9/2008	56	69	43	0		
9/10/2008	56	69	43	8		
9/11/2008	56	69	40	0		
9/12/2008	56	69	43	0		
9/13/2008	56	69	43	0		
9/14/2008	56	69	42	0		
9/15/2008	56	69	42	0		
9/16/2008	55	68	42	0		
9/17/2008	56	69	42	0		
9/18/2008	54	67	42	0		
9/19/2008	56	69	42	0		
9/20/2008	56	69	42	0		
9/21/2008	56	69	42	0		
9/22/2008	55	68	42	0		
9/23/2008	55	68	42	0		
9/24/2008	55	68	41	0		
9/25/2008	55	68	41	0		
9/26/2008	55	68	41	0		
9/27/2008	55	68	41	0		
9/28/2008	55	68	41	0		
9/29/2008	55	68	42	0		
9/30/2008	55	68	42	0		
10/1/2008				0		

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Total

1246

W2582  
 Milliken 21-18  
 North Goodland  
 Goodland  
 None  
 October-08

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
10/1/2008	55	68	42	0		
10/2/2008	55	68	42	0		
10/3/2008	55	68	42	0		
10/4/2008	55	68	42	0		
10/5/2008	56	69	38	0		
10/6/2008	55	68	38	0		
10/7/2008	55	68	42	0		
10/8/2008	55	68	42	0		
10/9/2008	54	67	49	0		
10/10/2008	54	67	49	0		
10/11/2008	54	67	49	0		
10/12/2008	54	67	49	0		
10/13/2008	54	67	49	0		
10/14/2008				0		
10/15/2008				0		
10/16/2008				0		
10/17/2008				0		
10/18/2008				0		
10/19/2008				0		
10/20/2008				0		
10/21/2008				0		
10/22/2008				0		
10/23/2008				0		
10/24/2008				0		
10/25/2008				0		
10/26/2008				0		
10/27/2008				0		
10/28/2008				0		
10/29/2008				0		
10/30/2008				0		
10/31/2008				0		

Total

573

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