

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

Type Test:

Open Flow  SI  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
8/4/2008

API No. 15  
023-20659-0000

Company Rosewood Resources, Inc.		Lease Miller		Well Number 24-13	
County Cheyenne	Location SESW	Section 13	TWP 3S	Ring (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/11/2006		Plug Back Total Depth 1347'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1350'	Perforations 1234'	To 1270'
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	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1270'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-4 20 08 at 9:45		<input checked="" type="radio"/> (AM) (PM) Taken 8-5 20 08 at 10:30		<input checked="" type="radio"/> (AM) (PM)	
Well on Line: Started 8-5 20 08 at 10:30		<input checked="" type="radio"/> (AM) (PM) Taken 8-6 20 08 at 10:45		<input checked="" type="radio"/> (AM) (PM)	

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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						71	85.4				
Flow						112	126.4				

### 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>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						14		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>o</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>o</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>o</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>o</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>o</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: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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 11 day of December, 2008

Witness (if any)

For Commission

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KANSAS CORPORATION COMMISSION

**JAN 29 2009**

CONSERVATION DIVISION  
WICHITA KS

*Wayne ...*  
For Company

Checked by

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**SEP 18 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 Miller 24-13 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: 12/11/08

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WICHITA, KS

Signature: *Wayne Inab*

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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W370  
 Miller 24-13  
 St. Francis  
 St. Francis  
 None  
 August-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
8/1/2008		73	21	0	
8/2/2008		73	21	0	
8/3/2008		78	20	0	
8/4/2008		65	20	0	
8/5/2008	71	58	20	0	shut in for test
8/6/2008	112	99	1	24	open
8/7/2008		79	34	0	
8/8/2008		78	21	0	
8/9/2008		78	20	0	
8/10/2008		78	21	0	
8/11/2008		77	21	0	
8/12/2008		78	21	0	
8/13/2008		76	21	0	
8/14/2008		74	20	0	
8/15/2008		74	20	0	
8/16/2008		73	20	0	
8/17/2008		73	20	0	
8/18/2008		75	20	0	
8/19/2008		78	20	0	
8/20/2008		78	20	0	
8/21/2008		82	20	0	
8/22/2008		87	20	0	
8/23/2008		89	20	0	
8/24/2008		87	20	0	
8/25/2008		87	20	0	
8/26/2008		88	20	0	
8/27/2008		88	20	0	
8/28/2008		87	20	0	
8/29/2008		123	36	0	
8/30/2008		98	32	0	
8/31/2008		73	31	0	

Total

661

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W370  
 Miller 24-13  
 St. Francis  
 St. Francis  
 None  
 September-08

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
9/1/2008		91		30	0	
9/2/2008		87		29	0	
9/3/2008		86		28	0	
9/4/2008		66		28	0	
9/5/2008		66		12	0	
9/6/2008		168		11	14.5	
9/7/2008		96		14	0	
9/8/2008		62		15	0	
9/9/2008		62		14	0	
9/10/2008		65		14	0	
9/11/2008		75		14	0	
9/12/2008		90		15	0	
9/13/2008		97		17	0	
9/14/2008		61		14	0	
9/15/2008		60		14	0	
9/16/2008		62		14	0	
9/17/2008		63		14	0	
9/18/2008		60		14	0	
9/19/2008		58		14	0	
9/20/2008		58		14	0	
9/21/2008		58		14	0	
9/22/2008		58		14	0	
9/23/2008		57		14	0	
9/24/2008		60		14	0	
9/25/2008		60		14	0	
9/26/2008		61		14	0	
9/27/2008		61		14	0	
9/28/2008		61		14	0	
9/29/2008		60		14	0	
9/30/2008		60		14	0	
10/1/2008					0	

Total

479

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KCC WICHITA

W370  
 Miller 24-13  
 St. Francis  
 St. Francis  
 None  
 October-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
10/1/2008		61	14	0	
10/2/2008		61	14	0	
10/3/2008		62	14	0	
10/4/2008		61	14	0	
10/5/2008		63	14	0	
10/6/2008		61	14	0	
10/7/2008		59	13	0	
10/8/2008		170	8	14	
10/9/2008		132	17	0	
10/10/2008		62	15	0	
10/11/2008		60	15	0	
10/12/2008		60	15	0	
10/13/2008		59	14	0	
10/14/2008		60	14	0	
10/15/2008		61	14	0	
10/16/2008		61	14	0	
10/17/2008		61	14	0	
10/18/2008		60	14	0	
10/19/2008		60	14	0	
10/20/2008		60	14	0	
10/21/2008		59	14	0	
10/22/2008		60	14	0	
10/23/2008		60	14	0	
10/24/2008		60	14	0	
10/25/2008		60	14	0	
10/26/2008		61	14	0	
10/27/2008		64	14	0	
10/28/2008		59	15	0	
10/29/2008		63	14	0	
10/30/2008		63	14	0	
10/31/2008		62	14	0	

Total

434

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