

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

(See Instructions on Reverse Side)

Type Test:

Open Flow  **SI**  
 Deliverability

Test Date:  
5/22/2008

API No. 15  
023-20606-0000

Company Rosewood Resources, Inc.		Lease Miller		Well Number 2-13	
County Cheyenne	Location NW SW/4	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7/1/2005		Plug Back Total Depth 1464'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1464'	Perforations 1270'	To 1302'
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 <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1302'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-22 20 08 at 8:15		(AM) (PM) Taken 5-23 20 08 at 8:50		(AM) (PM)	
Well on Line: Started 5-23 20 08 at 8:50		(AM) (PM) Taken 5-24 20 08 at 9:15		(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>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						60	74.4				
Flow						155	169.4				

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						12		

### (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>or</sub>)<sup>2</sup> = 0.207  
(P<sub>d</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: 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 12 day of December, 20 08

Witness (if any)

**RECEIVED**  
KANSAS CORPORATION COMMISSION

*Maiba*  
For Company

**RECEIVED**

For Commission

**JAN 29 2009**

Checked by

**SEP 18 2009**

CONSERVATION DIVISION  
WICHITA, KS

**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 2-13 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: 12/12/08

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
WICHITA, KS

Signature: *Wayne Matton*

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.

RECEIVED

SEP 18 2009

KCC WICHITA

W358  
 Miller 2-13  
 St. Francis  
 St. Francis  
 None  
 May-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
5/1/2008		71	12	0	
5/2/2008	58	71	12	0	
5/3/2008		71	12	0	
5/4/2008		71	12	0	
5/5/2008		71	12	0	
5/6/2008		70	12	0	
5/7/2008		71	12	0	
5/8/2008	56	69	12	0	
5/9/2008		69	12	0	
5/10/2008		69	12	0	
5/11/2008		69	12	0	
5/12/2008		70	12	0	
5/13/2008		69	12	0	
5/14/2008		70	12	0	
5/15/2008	60	74	12	0	
5/16/2008		70	12	0	
5/17/2008		69	12	0	
5/18/2008		70	12	0	
5/19/2008		70	12	0	
5/20/2008		66	12	0	
5/21/2008		77	12	0	
5/22/2008		64	11	0	
5/23/2008	60	77	11	0	shut in for test
5/24/2008	155	67	2	0	open
5/25/2008		68	20	0	
5/26/2008		68	14	0	
5/27/2008		71	14	0	
5/28/2008		71	14	0	
5/29/2008		77	13	0	
5/30/2008		73	13	0	
5/31/2008		73	13	0	

Total

377

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JAN 29 2009  
 CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED  
 SEP 18 2009  
 KCC WICHITA

W358  
 Miller 2-13  
 St. Francis  
 St. Francis  
 None  
 June-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
6/1/2008		73		13	0
6/2/2008		72		12	0
6/3/2008		72		12	0
6/4/2008		70		12	0
6/5/2008		69		12	0
6/6/2008		68		12	0
6/7/2008		70		12	0
6/8/2008		70		12	0
6/9/2008		72		12	0
6/10/2008		77		11	0
6/11/2008		77		11	0
6/12/2008		75		12	0
6/13/2008		77		12	0
6/14/2008		77		12	0
6/15/2008		80		12	0
6/16/2008		77		12	0
6/17/2008		75		11	0
6/18/2008		72		12	0
6/19/2008		73		12	0
6/20/2008		73		12	0
6/21/2008		72		12	0
6/22/2008		73		12	0
6/23/2008		72		12	0
6/24/2008		72		12	0
6/25/2008		72		12	0
6/26/2008		73		11	0
6/27/2008		72		11	0
6/28/2008		72		11	0
6/29/2008		72		11	0
6/30/2008		72		11	0
7/1/2008					0

Total 353

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 29 2009

RECEIVED  
 CONSERVATION DIVISION  
 WICHITA, KS

SEP 18 2009

KCC WICHITA

W358  
 Miller 2-13  
 St. Francis  
 St. Francis  
 None  
 July-08

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
7/1/2008			71	11	0	
7/2/2008			75	11	0	
7/3/2008	58		71	10	0	
7/4/2008			71	10	0	
7/5/2008			80	10	0	
7/6/2008			82	10	0	
7/7/2008			80	10	0	
7/8/2008			76	11	0	
7/9/2008			72	13	0	
7/10/2008	60		73	12	0	
7/11/2008			82	12	0	
7/12/2008			73	10	0	
7/13/2008			72	11	0	
7/14/2008			176	12	11	
7/15/2008			115	11	0	
7/16/2008			94	13	0	
7/17/2008	65		78	13	0	
7/18/2008			108	11	0	
7/19/2008			62	13	3	
7/20/2008			66	13	0	
7/21/2008			70	11	0	
7/22/2008			73	10	0	
7/23/2008			75	10	0	
7/24/2008	80		96	9	0	
7/25/2008			92	10	0	
7/26/2008			65	14	0	
7/27/2008			65	14	0	
7/28/2008			69	10	0	
7/29/2008			62	9	0	
7/30/2008			135	13	0	
7/31/2008	50		66	14	5	

Total

351

RECEIVED  
 SEP 18 2009  
 KCC WICHITA

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JAN 29 2009  
 CONSERVATION DIVISION  
 WICHITA, KS