

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

(See Instructions on Reverse Side)

Type Test:

- Open Flow  SI  
 Deliverability

Test Date:  
5/20/2008

API No. 15  
023-20611-00

Company Rosewood Resources, Inc.		Lease Grace		Well Number 1-24	
County Cheyenne	Location NW SE/4	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 5/4/2005		Plug Back Total Depth 1507'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1507'	Perforations 1302'	To 1334'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Sinle (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes / <input checked="" type="checkbox"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1334'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-20 20 08 at 10:40 (AM) (PM) Taken 5-21 20 08 at 11:20 (AM) (PM)		Well on Line: Started 5-21 20 08 at 11:20 (AM) (PM) Taken 5-22 20 08 at 11:40 (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>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						70	84.4				
Flow						140	154.4			24	0

### 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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						43		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>g</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>g</sub>)<sup>2</sup> = 0.207  
(P<sub>g</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 10 day of December, 20 08

Witness (if any)

**RECEIVED**  
KANSAS CORPORATION COMMISSION

*Wayne Mahon*  
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 Grace 1-24 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: 12/10/08

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
WICHITA, KS

Signature: Wayne Matan

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

W348  
 Grace 1-24  
 St. Francis  
 St. Francis  
 None  
 May-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
5/1/2008		85	41	0	
5/2/2008	70	85	41	0	
5/3/2008		84	41	0	
5/4/2008		84	42	0	
5/5/2008		85	41	0	
5/6/2008		84	41	0	
5/7/2008	70	84	41	0	
5/8/2008		83	42	0	
5/9/2008		83	42	0	
5/10/2008		83	42	0	
5/11/2008		82	42	0	
5/12/2008		83	42	0	
5/13/2008		82	42	0	
5/14/2008	70	82	42	0	
5/15/2008		82	42	0	
5/16/2008		83	42	0	
5/17/2008		83	42	0	
5/18/2008		83	42	0	
5/19/2008		83	42	0	
5/20/2008		82	42	0	
5/21/2008	70	78	43	0	shut in for test
5/22/2008	140	65	9	0	open
5/23/2008		91	47	0	
5/24/2008		82	45	0	
5/25/2008		82	45	0	
5/26/2008		84	45	0	
5/27/2008		87	45	0	
5/28/2008		85	44	0	
5/29/2008		90	43	0	
5/30/2008		87	43	0	
5/31/2008		87	43	0	

Total

1286

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED

SEP 18 2009

KCC WICHITA

W348  
 Grace 1-24  
 St. Francis  
 St. Francis  
 None  
 June-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
6/1/2008		87	44	0	
6/2/2008		86	43	0	
6/3/2008		86	43	0	
6/4/2008	70	84	43	0	
6/5/2008		83	43	0	
6/6/2008		83	43	0	
6/7/2008		84	43	0	
6/8/2008		84	43	0	
6/9/2008		84	43	0	
6/10/2008		86	43	0	
6/11/2008	85	90	42	0	
6/12/2008		88	43	0	
6/13/2008		90	43	0	
6/14/2008		90	43	0	
6/15/2008		92	42	0	
6/16/2008		88	42	0	
6/17/2008		89	43	0	
6/18/2008	75	86	43	0	
6/19/2008		86	42	0	
6/20/2008		86	43	0	
6/21/2008		86	43	0	
6/22/2008		86	43	0	
6/23/2008		88	43	0	
6/24/2008	75	86	43	0	
6/25/2008		86	43	0	
6/26/2008		89	43	0	
6/27/2008		86	43	0	
6/28/2008		86	43	0	
6/29/2008		84	43	0	
6/30/2008		86	43	0	
7/1/2008				0	

Total

1287

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED  
 SEP 18 2009

KCC WICHITA

W348  
 Grace 1-24  
 St. Francis  
 St. Francis  
 None  
 July-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
7/1/2008		84	43	0	
7/2/2008	75	87	43	0	
7/3/2008		84	42	0	
7/4/2008		84	42	0	
7/5/2008		91	42	0	
7/6/2008		94	42	0	
7/7/2008		91	42	0	
7/8/2008	75	87	43	0	
7/9/2008		84	43	0	
7/10/2008		85	42	0	
7/11/2008		91	42	0	
7/12/2008		85	43	0	
7/13/2008		84	42	0	
7/14/2008		176	42	11	
7/15/2008	110	124	26	0	
7/16/2008		103	50	0	
7/17/2008		90	45	0	
7/18/2008		112	44	0	
7/19/2008		77	43	3	
7/20/2008		80	43	0	
7/21/2008		80	42	0	
7/22/2008	74	86	42	0	
7/23/2008		85	42	0	
7/24/2008		108	42	0	
7/25/2008		92	42	0	
7/26/2008		78	44	0	
7/27/2008		76	42	0	
7/28/2008		82	42	0	
7/29/2008	65	77	42	0	
7/30/2008		144	43	0	
7/31/2008		80	38	5	

Total 1305

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED  
 SEP 18 2009  
 KCC WICHITA