

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

Type Test:

Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
5/13/2008

API No. 15  
023-20635-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 14-3	
County Cheyenne	Location SWSW	Section 3	TWP 3S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10-21-2005		Plug Back Total Depth 1715'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1715'	Perforations 1575'	To 1607'
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	
Vertical Depth(H) 1573'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-13 20 08 at 3:20 (AM) <input checked="" type="radio"/> (PM) Taken 5-14 20 08 at 4:15 (AM) <input checked="" type="radio"/> (PM)					
Well on Line: Started 5-14 20 08 at 4:15 (AM) <input checked="" type="radio"/> (PM) Taken 5-15 20 08 at 4:30 (AM) <input checked="" type="radio"/> (PM)					

RECEIVED  
SEP 18 2009  
KCC WICHITA

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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						155	69.4				
Flow						225	239.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</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>
						6		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(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>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>g</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>g</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_g^2}$	Backpressure Curve Slope = "n" 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)

For Commission

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 29 2009  
CONSERVATION DIVISION  
WICHITA KS

*Wayne Anaton*  
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 Ell Mae 14-03 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

RECEIVED

JAN 29 2009

SEP 18 2009

CONSERVATION DIVISION  
WICHITA, KS

KCC WICHITA

Signature: *Leape Foster*

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.

W435  
 Ella Mae 14-03  
 West St. Francis  
 St. Francis  
 None  
 May-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
5/1/2008		73		5	0
5/2/2008		73		5	0
5/3/2008		73		5	0
5/4/2008		72		5	0
5/5/2008		74		5	0
5/6/2008		73		5	0
5/7/2008		76		5	0
5/8/2008		76		5	0
5/9/2008		76		5	0
5/10/2008		74		5	0
5/11/2008		71		5	0
5/12/2008		72		5	0 replaced valve on pot
5/13/2008		69		6	0
5/14/2008	55	71		6	0 shut in for test
5/15/2008	225	87		2	0 open
5/16/2008		77		9	0
5/17/2008		72		6	0
5/18/2008		74		6	0
5/19/2008		75		6	0
5/20/2008		77		6	0
5/21/2008	60	75		6	0
5/22/2008		76		6	0
5/23/2008		76		6	0
5/24/2008		76		6	0
5/25/2008		72		6	0
5/26/2008		72		6	0
5/27/2008		76		6	0
5/28/2008	60	76		6	0
5/29/2008		75		6	0
5/30/2008		76		6	0
5/31/2008		76		6	0

Total

173

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED  
 SEP 18 2009  
 KCC WICHITA

W435  
 Ella Mae 14-03  
 West St. Francis  
 St. Francis  
 None  
 June-08

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
6/1/2008		76	6	0
6/2/2008		75	6	0
6/3/2008		76	6	0
6/4/2008		74	6	0
6/5/2008	60	74	6	0
6/6/2008		75	6	0
6/7/2008		76	6	0
6/8/2008		76	6	0
6/9/2008		74	6	0
6/10/2008		74	6	0
6/11/2008		78	6	0
6/12/2008	65	78	6	0
6/13/2008		78	6	0
6/14/2008		78	6	0
6/15/2008		78	6	0
6/16/2008		77	6	0
6/17/2008		76	6	0
6/18/2008		75	6	0
6/19/2008	60	75	6	0
6/20/2008		74	6	0
6/21/2008		75	6	0
6/22/2008		74	6	0
6/23/2008		76	6	0
6/24/2008	60	76	6	0
6/25/2008		76	6	0
6/26/2008		76	6	0
6/27/2008		75	6	0
6/28/2008		75	6	0
6/29/2008		76	6	0
6/30/2008		76	6	0
7/1/2008				0

Total 180

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

RECEIVED  
 SEP 18 2009  
 KCC WICHITA

W435  
 Ella Mae 14-03  
 West St. Francis  
 St. Francis  
 None  
 July-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2008		76		6	0
7/2/2008	65	80		6	0
7/3/2008		75		6	0
7/4/2008		75		6	0
7/5/2008		80		6	0
7/6/2008		83		6	0
7/7/2008	70	83		6	0
7/8/2008		80		6	0
7/9/2008		77		6	0
7/10/2008		80		6	0
7/11/2008		87		6	0
7/12/2008		83		6	0
7/13/2008		79		6	0
7/14/2008	95	107		6	11
7/15/2008		120		5	0
7/16/2008		105		6	0
7/17/2008		84		6	0
7/18/2008		115		6	0
7/19/2008		66		6	3
7/20/2008		73		6	0
7/21/2008	65	76		5	0
7/22/2008		80		5	0
7/23/2008		81		5	0
7/24/2008		85		5	4
7/25/2008		86		6	0
7/26/2008		76		5	0
7/27/2008		63		5	0
7/28/2008		73		5	0
7/29/2008	65	79		5	0
7/30/2008		75		5	0
7/31/2008		78		6	5

Total

176

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 29 2009

CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED  
 SEP 18 2009

KCC WICHITA