

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

Type Test:

- Open Flow **ASI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
5/11/2008

API No. 15  
023-20634-0000

Company Rosewood Resources, Inc.		Lease R. Moore		Well Number 13-28	
County Cheyenne	Location NWSW/4	Section 28	TWP 2S	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 1789'	Packer Set at		
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1789'	Perforations 1668'	To 1700'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production	Pump Unit or Traveling Plunger? Yes / <b>No</b> flowing		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> .6	
Vertical Depth(H) 1700'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-11 20 08 at 10:30 (AM) (PM) Taken 5-12 20 08 at 11:30 (AM) (PM)		Well on Line: Started 5-12 20 08 at 11:30 (AM) (PM) Taken 5-13 20 08 at 12:00 (AM) (PM)			

### 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>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						79	93.4				
Flow						81	95.4			24	0

### 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>
						4		

### (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>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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 11 day of December, 20 08

Witness (if any)

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*Wayne Anshon*  
For Company

For Commission

**JAN 29 2009**  
CONSERVATION DIVISION  
WICHITA, KS

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 R. Moore 13-28 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: 12/11/2008

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JAN 29 2009

CONSERVATION DIVISION  
WICHITA, KS

Signature: Leslie Mahon

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.

W439  
 R. Moore 13-28  
 West St. Francis  
 St. Francis  
 None  
 May-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
5/1/2008		78		4	0
5/2/2008		77		4	0
5/3/2008		77		4	0
5/4/2008		77		4	0
5/5/2008		77		4	0
5/6/2008		77		4	0
5/7/2008		79		4	0
5/8/2008		79		4	0
5/9/2008		79		4	0
5/10/2008		79		4	0
5/11/2008		78		4	0
5/12/2008	60	79		4	0 shut in for test
5/13/2008	270	78		1	0 open well
5/14/2008		71		7	0
5/15/2008		96		4	0
5/16/2008		83		4	0
5/17/2008		79		4	0
5/18/2008		78		4	0
5/19/2008		81		4	0
5/20/2008	68	81		4	0
5/21/2008		81		4	0
5/22/2008		81		4	0
5/23/2008		82		4	0
5/24/2008		80		4	0
5/25/2008		79		4	0
5/26/2008		79		4	0
5/27/2008		81		4	0
5/28/2008	68	81		4	0
5/29/2008		81		4	0
5/30/2008		83		4	0
5/31/2008		81		4	0

Total

124

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W439  
 R. Moore 13-28  
 West St. Francis  
 St. Francis  
 None  
 June-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
6/1/2008		81		4	0
6/2/2008		81		4	0
6/3/2008		81		4	0
6/4/2008		80		4	0
6/5/2008	65	80		4	0
6/6/2008		79		4	0
6/7/2008		78		4	0
6/8/2008		78		4	0
6/9/2008		79		4	0
6/10/2008		78		4	0
6/11/2008		83		4	0
6/12/2008	70	83		4	0
6/13/2008		83		4	0
6/14/2008		83		4	0
6/15/2008		83		4	0
6/16/2008		82		4	0
6/17/2008		78		4	0
6/18/2008		80		4	0
6/19/2008	65	80		4	0
6/20/2008		80		4	0
6/21/2008		79		4	0
6/22/2008		79		4	0
6/23/2008		79		4	0
6/24/2008	67	80		4	0
6/25/2008		80		4	0
6/26/2008		81		4	0
6/27/2008		80		4	0
6/28/2008		79		4	0
6/29/2008		79		4	0
6/30/2008		79		4	0
7/1/2008					0

Total

120

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CONSERVATION DIVISION  
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W439  
 R. Moore 13-28  
 West St. Francis  
 St. Francis  
 None  
 July-08

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
7/1/2008		79		4	0
7/2/2008	70	83		4	0
7/3/2008		80		4	0
7/4/2008		80		4	0
7/5/2008		85		4	0
7/6/2008		89		4	0
7/7/2008	75	90		4	0
7/8/2008		85		4	0
7/9/2008		81		4	0
7/10/2008		85		4	0
7/11/2008		91		4	0
7/12/2008		85		4	0
7/13/2008		83		4	0
7/14/2008	95	107		4	11
7/15/2008		123		3	0
7/16/2008		105		4	0
7/17/2008		89		4	0
7/18/2008		116		4	0
7/19/2008		71		4	3
7/20/2008		78		4	0
7/21/2008	68	81		4	0
7/22/2008		85		4	0
7/23/2008		85		4	0
7/24/2008		90		4	4
7/25/2008		89		4	0
7/26/2008		78		4	0
7/27/2008		67		4	0
7/28/2008		78		4	0
7/29/2008	70	83		4	0
7/30/2008		167		4	0
7/31/2008		83		4	5

Total

123

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JAN 29 2009

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