

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

Type Test:

(See Instructions on Reverse Side)

Open Flow **RSI**  
 Deliverability

Test Date:  
9/21/2011

API No. 15  
023-20633-00 - **00**

Company Rosewood Resources, Inc.		Lease R. Moore		Well Number 33-28	
County Cheyenne	Location NWSE	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 1771'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1771'	Perforations 1648'	To 1680'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production		Pump Unit or Traveling Plunger? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1664'		Pressure Taps Flange		Gas Gravity - G <sub>s</sub> .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut In 9-20	20 11 at 1:45	(AM) <input type="checkbox"/> (PM) <input checked="" type="checkbox"/>	Taken 9-21	20 11 at 2:00 (AM) <input type="checkbox"/> (PM) <input checked="" type="checkbox"/>
Well on Line:	Started 9-21	20 11 at 2:00	(AM) <input type="checkbox"/> (PM) <input checked="" type="checkbox"/>	Taken 9-22	20 11 at 2:45 (AM) <input type="checkbox"/> (PM) <input checked="" type="checkbox"/>

### 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>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						263	277.4				
Flow						40	54.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</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>
						2		

### (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>w</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</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>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>w</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 **28** day of **December**

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Commission

**RECEIVED**  
**APR 24 2012**  
*Samuel G. [Signature]*  
For Company

\_\_\_\_\_  
Checked by **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 R. Moore 33-28 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: 12/28/11

Signature:   
Title: Production Assistant

**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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W438  
 R. Moore 33-28  
 West St. Francis  
 St. Francis  
 None  
 September-11

DATE	Tubin Casing			SPM	CYCL	HRS DOWN	Water BBL	REMARKS (Maximum length 110 characters)
	PSI	PSI	STATIC MCF					
9/1/2011		40	54	2				
9/2/2011		41	54	2				
9/3/2011		41	54	2				
9/4/2011		41	54	2				
9/5/2011		41	54	2				
9/6/2011		27	51	2				
9/7/2011		40	54	2				
9/8/2011		40	54	2				
9/9/2011		41	55	2				
9/10/2011		40	54	2				
9/11/2011		40	54	2				
9/12/2011		38	52	2				
9/13/2011		38	52	2				
9/14/2011		41	54	2				
9/15/2011		39	52	2				
9/16/2011		40	53	2				
9/17/2011		39	52	2				
9/18/2011		39	52	2				
9/19/2011		39	52	2				
9/20/2011		38	51	2				
9/21/2011		263	50	0		24		shut in for state test opened well
9/22/2011		40	54	5				
9/23/2011		40	54	3				
9/24/2011		40	54	3				
9/25/2011		39	53	3				
9/26/2011		40	54	2				
9/27/2011		41	55	2				
9/28/2011		41	55	2				
9/29/2011		40	54	2				
9/30/2011		40	53	2				
10/1/2011								

Total

64

0

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W438  
R. Moore 33-28  
West St. Francis  
St. Francis  
None  
November-11

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
11/1/2011		38	65	2	0	0	0
11/2/2011		38	53	3	0	0	0
11/3/2011		36	51	2	0	0	0
11/4/2011		37	50	2	0	0	0
11/5/2011		38	51	2	0	0	0
11/6/2011		38	51	2	0	0	0
11/7/2011		37	52	2	0	0	0
11/8/2011		37	55	2	0	0	0
11/9/2011		37	52	2	0	0	0
11/10/2011		36	51	2	0	0	0
11/11/2011		36	50	2	0	0	0
11/12/2011		36	50	2	0	0	0
11/13/2011		36	50	2	0	0	0
11/14/2011		36	50	2	0	0	0
11/15/2011		33	55	2	0	0	0
11/16/2011		37	52	2	0	0	0
11/17/2011		36	50	2	0	0	0
11/18/2011		35	50	2	0	0	0
11/19/2011		35	50	2	0	0	0
11/20/2011		35	51	2	0	0	0
11/21/2011		37	51	2	0	0	0
11/22/2011		37	52	2	0	0	0
11/23/2011		37	52	2	0	0	0
11/24/2011		38	52	2	0	0	0
11/25/2011		38	52	2	0	0	0
11/26/2011		39	52	2	0	0	0
11/27/2011		38	52	2	0	0	0
11/28/2011		38	52	2	0	0	0
11/29/2011		38	52	2	0	0	0
11/30/2011		37	52	2	0	0	0
12/1/2011		0	0	0	0	0	0

Total

61

0

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APR 24 2012  
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