

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

Type Test:

Open Flow  **SI**  
 Deliverability

Test Date:  
7/24/2007

API No. 15  
023-20634-00<sup>00</sup>

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 / <input checked="" type="radio"/> No flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1700'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
Pressure Buildup: Shut in 7-24 20 07 at 3:30 (AM) <input checked="" type="radio"/> (PM)		Taken 7-25 20 07 at 5:00 (AM) <input checked="" type="radio"/> (PM)			
Well on Line: Started 7-25 20 07 at 5:00 (AM) <input checked="" type="radio"/> (PM)		Taken 7-26 20 07 at 4:30 (AM) <input checked="" type="radio"/> (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>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						270	284.4				
Flow						68	82.4			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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						5		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207

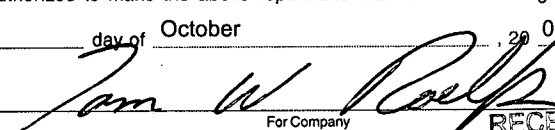
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 5 day of October, 2007.

\_\_\_\_\_  
Witness (if any)  
  
\_\_\_\_\_  
For Commission

  
For Company  
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Checked by \_\_\_\_\_

NOV 02 2007

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.

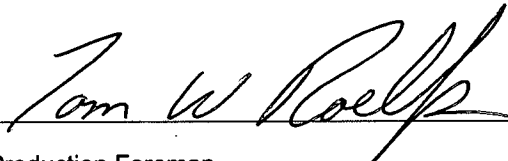
I hereby request a one-year exemption from open flow testing for the R. Moore 13-28 gas well on the grounds that said well:

(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: 10/5/2007

Signature:   
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 signed and dated on the front side as though it was a verified report of annual test results.

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CONSERVATION DIVISION  
WICHITA, KS

W439

R. Moore 13-28

West St. Francis

St. Francis

None

July-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2007		62		5	0
7/2/2007		62		5	0
7/3/2007		62		5	0 bp
7/4/2007		62		5	0
7/5/2007		62		5	0
7/6/2007		60		5	0
7/7/2007		62		5	0
7/8/2007		62		5	0
7/9/2007		161		2	12
7/10/2007		208		2	15
7/11/2007		139		4	12
7/12/2007		90		9	0 bp
7/13/2007		72		6	0
7/14/2007		66		5	0
7/15/2007		65		5	0
7/16/2007		64		5	0 bp
7/17/2007		64		5	0
7/18/2007		62		5	0
7/19/2007		59		5	0
7/20/2007		60		5	0
7/21/2007		62		5	0
7/22/2007		60		5	0
7/23/2007		61		5	0 bp
7/24/2007		80		4	4 si 60 psi
7/25/2007		53	0.5		0 open 270 psi
7/26/2007		60		9	0
7/27/2007		66		5	0
7/28/2007		64		5	0
7/29/2007		59		5	0
7/30/2007		61		5	0
7/31/2007		63		5	0

Total

151.5

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CONSERVATION DIVISION  
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W439

R. Moore 13-28

West St. Francis

St. Francis

None

August-07

DATE	Casing			HRS	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN	
8/1/2007		63		5	0
8/2/2007		62		5	0
8/3/2007		66		5	0
8/4/2007		66		5	0
8/5/2007		68		5	0
8/6/2007		69		5	0 bp
8/7/2007		71		5	0
8/8/2007		72		5	0
8/9/2007		73		5	12
8/10/2007		129		3	0
8/11/2007		117		5	0
8/12/2007		102		5	0
8/13/2007		98		5	0
8/14/2007		102		5	0 bp
8/15/2007	110	104		5	0
8/16/2007		70		5	0
8/17/2007		74		5	0
8/18/2007		73		5	0
8/19/2007		73		5	0
8/20/2007		74		5	0 bp
8/21/2007	65	75		5	0
8/22/2007		75		5	0
8/23/2007		74		5	0
8/24/2007		77		4	0
8/25/2007		75		5	0
8/26/2007		76		5	0
8/27/2007		77		5	0
8/28/2007		77		4	0 bp
8/29/2007		77		5	0
8/30/2007		87		5	0
8/31/2007		87		5	0

Total

151

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CONSERVATION DIVISION  
WICHITA, KS

W439  
 R. Moore 13-28  
 West St. Francis  
 St. Francis  
 None  
 September-07

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
9/1/2007		90		4	0
9/2/2007		84		4	0
9/3/2007		78		4	0
9/4/2007		75		4	0
9/5/2007		151		3	7 cd bp
9/6/2007		110		6	0
9/7/2007		120		5	3
9/8/2007		89		4	0
9/9/2007		85		4	0
9/10/2007		87		4	0 bp
9/11/2007		83		4	0
9/12/2007		85		4	0
9/13/2007		91		4	0
9/14/2007		90		4	0
9/15/2007		102		4	0
9/16/2007		104		4	0
9/17/2007		103		4	0
9/18/2007	90	105		4	0 bp
9/19/2007		80		5	0
9/20/2007		80		4	0
9/21/2007		80		5	0
9/22/2007		80		5	0
9/23/2007		82		4	0
9/24/2007		71		4	0 bp
9/25/2007		54		4	0
9/26/2007		49		4	0
9/27/2007		81		4	0
9/28/2007		80		4	0
9/29/2007		80		4	0
9/30/2007		79		4	0
10/1/2007					0

Total 125

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