

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow  
 Deliverability

Test Date:  
1/15/2009

API No. 15  
023-20545-00

Company Rosewood Resources, Inc.		Lease Moore		Well Number 1-16	
County Cheyenne	Location NWSW	Section 16	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 1/30/2004		Plug Back Total Depth 1871'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1871'	Perforations 1655'	To 1689'
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="checkbox"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1885'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	

Pressure Buildup: Shut in 1-15 20 09 at 10:00  (AM) (PM) Taken 1-16 20 09 at 10:15  (AM) (PM)

Well on Line: Started \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_  (AM) (PM) Taken \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_  (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>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											
Flow						344	358.4			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>
						30		

### (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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 20 day of March, 20 09.

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*Wagner*  
For Company

Witness (if any)

For Commission

MAR 27 2009

Checked by

CONSERVATION DIVISION  
WICHITA, KS

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 Moore 1-16 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: 3/20/2009

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CONSERVATION DIVISION  
WICHITA, KS

Signature: Wayne Drake

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.

Moore 1-16  
 West St. Francis  
 R4

January-09

	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)	
1/1/2009					
1/2/2009					
1/3/2009					
1/4/2009					
1/5/2009					
1/6/2009					
1/7/2009					
1/8/2009					
1/9/2009					
1/10/2009					
1/11/2009					
1/12/2009					
1/13/2009					
1/14/2009					
1/15/2009				0 put on @ 344# @ 30mcf	
1/16/2009	131		28	0	
1/17/2009	130		29	0	
1/18/2009	130		29	0	
1/19/2009	131		29	0 cp 330	
1/20/2009	130		27	0	330
1/21/2009	131		26	0	330
1/22/2009	131		26	0 cp330 open to 30 mcf	
1/23/2009	129		33	0	
1/24/2009	127		32	0	
1/25/2009	127		32	0	320
1/26/2009	129		32	0	
1/27/2009	127		28	0	320
1/28/2009	129		28	0	320
1/29/2009	128		25	0	320
1/30/2009	130		27	0	325
1/31/2009	132		22	0	

Total

453

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 WICHITA, KS

W2560  
 Moore 1-16  
 West St. Francis  
 R4

February-09

DATE	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
2/1/2009	132		22	0
2/2/2009	130		18	0
2/3/2009	128		31	4.5 320cp
2/4/2009	128		31	0
2/5/2009	128		16	5 320cp opened to 26 mcf
2/6/2009	128		28	0 320cp
2/7/2009	128		27	0 320
2/8/2009	128		27	0 320
2/9/2009	129		27	0 320
2/10/2009	128		27	0 310
2/11/2009	128		29	0 310
2/12/2009	127		29	0 310
2/13/2009	127		32	0 310
2/14/2009	126		32	0 310
2/15/2009	127		32	0
2/16/2009	127		32	0 310
2/17/2009	127		34	0 310
2/18/2009	127		34	0 305
2/19/2009	127		35	0 300
2/20/2009	127		35	0 300
2/21/2009	127		35	0 310
2/22/2009	126		33	0 300
2/23/2009	126		35	0 300
2/24/2009	127		35	0
2/25/2009	127		35	0 300
2/26/2009	126		37	0 300
2/27/2009	126		39	0
2/28/2009	125		38	0
3/1/2009				0
3/2/2009				0

Total

865

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W2560

Moore 1-16

West St. Francis

R4

March-09

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
3/1/2009	290	126		38	0	
3/2/2009	290	126		40	0	
3/3/2009	290	126		42	0	
3/4/2009	290	126		44	0	
3/5/2009	290	126		42	0	
3/6/2009	290	125		45	0	
3/7/2009	295	125		46	0	
3/8/2009	295	125		46	0	
3/9/2009	295	124		46	0	
3/10/2009	290	124		44	0	
3/11/2009	290	125		41	0	
3/12/2009	290	125		41	0	
3/13/2009	290	125		41	0	
3/14/2009	290	124		43	0	
3/15/2009	290	124		43	0	
3/16/2009	290	116		40	0	
3/17/2009	290	206		2	24	
3/18/2009	290	204		0	24	
3/19/2009	300	125		0	4.5	
3/20/2009	290	122		30	0	
3/21/2009	105	98		39	0	
3/22/2009	105	92		29	0	
3/23/2009					0	
3/24/2009					0	
3/25/2009					0	
3/26/2009					0	
3/27/2009					0	
3/28/2009					0	
3/29/2009					0	
3/30/2009					0	

Total

782

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