

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
1/11/2007

API No. 15  
181-20458-01-00

Company Rosewood Resources, Inc.		Lease Manlove		Well Number 14-13H	
County Sherman	Location SWSW	Section 13	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 11/18/2006		Plug Back Total Depth 3272'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 3272'	Perforations 3199'	To 3214'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Horizontal)		Type Fluid Production Dry Gas	Pump Unit or Traveling Plunger? Yes / <input checked="" type="radio"/> No		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> .6	
Vertical Depth(H) 3451'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	

Pressure Buildup: Shut in \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_ (AM) (PM) Taken \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_ (AM) (PM)  
Well on Line: Started 1-11 20 07 at 3:00 (AM) ( PM) Taken 1-12 20 07 at 3:30 (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						58	72.4				
Flow						10	24.4			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>
						9		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

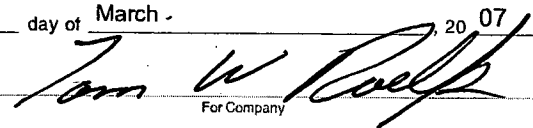
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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" ----- 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 13 day of March, 2007.

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

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

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APR 06 2007

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.

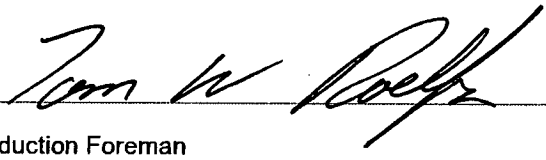
I hereby request a one-year exemption from open flow testing for the Manlove 14-13H gas well on the grounds that said well:

(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: 3/13/2007

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 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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WICHITA, KS

Monthly Gauge Sheet

Well Name: Manlove 14-13H

Pumper: \_\_\_\_\_

Month 1/07

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11						58		1st GAS 3:00p
12	29		12			16		Put on @ 35 MCF
13	28		16			15		
14	26		15			13		
15	26		15			13		
16	24		15			11		
17	24		12			11		
18	23		11			10		
19	23		11			10		
20	23		11			10		CP 4
21	25		10			12		
22	23		10			12		
23	23		10			12		
24	22		11			9		
25	24		10			11		
26	23		9			10		
27	23		9			10		
28	23		10			10		
29	22		9			9		
30	23		13			10		
31	23		10			10		
Totals			329					

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Monthly Gauge Sheet ✓

Well Name: ManWave 1413H

Pumper: \_\_\_\_\_

Month 2/07

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	22		10			9		
2	21		10			8		
3	22		12			9		
4	22		9			9		
5	22		8			9		
6	23		8			10		
7	24		8			11		BP
8	22		8			9		
9	22		8			9		
10	22		8			9		
11	22		8			9		
12	22		8			9		
13	25		7			12		
14	24		9			11		
15	23		11			10		Thawed BP
16	25		10			12		
17	23		8			10		
18	22		9			10		
19	21		9			9		BP
20	21		7			8		BP
21	20		9			7		BP
22	20		9			7		
23	20		8			7		
24	20		9			7		
25	19		8			6		
26	21		7			8		
27	19		7			6		
28	18		8			5		
29								
30								
31								
Totals								

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CONSERVATION DIVISION  
WICHITA, KS

ROSEWOOD RESOURCES, INC.

DAILY PRODUCTION REPORT

March 2007

ORIF: EFM

WELL: Manlove 14-13H

FIELD: Goodland

DATE	TUBING PRESSURE	CASING PRESSURE	GATH STATIC	GATH DIFF'L	GATH MCF	HRS ON	REMARKS
3/1/2007		4	17		7	24	
3/2/2007		4	17		7	24	
3/3/2007		5	18		7	24	
3/4/2007		5	18		7	24	
3/5/2007		5	18		7	24	
3/6/2007		6	19		7	24	
3/7/2007		5	18		7	24	
3/8/2007		5	18		7	24	
3/9/2007		5	18		7	24	
3/10/2007		5	18		7	24	
3/11/2007		5	18		7	24	
3/12/2007		6	19		7	24	
3/13/2007		6	19		7	24	
3/14/2007		5	18		7	24	
3/15/2007		4	17		7	24	
3/16/2007		5	18		7	24	
3/17/2007		4	17		7	23	CD 1HRS
3/18/2007		19	32		6	17	CD7HRS
3/19/2007		9	21		7	24	
3/20/2007		6	19		7	24	
3/21/2007		6	19		7	24	
3/22/2007		6	19		7	24	
3/23/2007		5	18		7	24	
3/24/2007		6	19		9	24	
3/25/2007		6	19		9	24	
3/26/2007		5	18		6	24	
3/27/2007		5	18		6	24	
3/28/2007		5	18		6	24	
3/29/2007		5	18		6	24	
3/30/2007		4	17		6	24	
3/31/2007		4	17		6	24	

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