

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
4/12/2006

API No. 15  
023-20659-00-∞

Company Rosewood Resources, Inc.		Lease Miller		Well Number 24-13	
County Cheyenne	Location SE SW	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/11/2006		Plug Back Total Depth 1347'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1350'	Perforations 1234'	To 1270'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Vertical)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1270'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)		Well on Line: Started 4-12 20 06 at 6:20 (AM) (PM) Taken 4-13 20 06 at 6:30 (AM) (PM)			

### 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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In											
Flow						255	269.65				

SHOULD BE IN THIS SPACE

### 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>
						26		

### (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> = \_\_\_\_\_

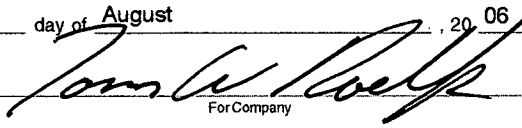
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 25 day of August, 20 06.

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

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

  
For Company

\_\_\_\_\_  
Checked by

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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.

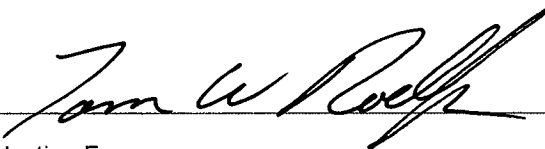
I hereby request a one-year exemption from open flow testing for the Miller 24-13 gas well on the grounds that said well:

(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: 8/25/2006

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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Monthly Gauge Sheet ✓

Well Name: Miller 24-13

Pumper: TR5

Month 4/06

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12			45			247#		First gas 6:20pm
13	172		26			255		
14	167		23			240		
15	170		21			230		
16	154		26			212		
17	168		45			275		
18	170		45			250		
19	171		45			250		
20	170		45			250		
21	164		30			250		
22	168		44			250		
23	166		45			250		
24	165		44			250		
25	169		46			250		
26	167		45			250		
27	169		45			245		
28	163		45			250		
29	166		45			250		
30	163		45			250		
31								
Totals								

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Monthly Gauge Sheet ✓

Well Name: Miller 24-13

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

Month 5/06

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	167		45			245		
2	168		45			246		
3	168		45			245		
4	168		45			243		
5	169		45			245		
6	169		45			245		
7	168		45			245		
8	168		45			245		
9	168		44			245		
10	167		46			243		
11	168		45			243		
12	168		44			243		
13	168		45			245		
14	168		45			245		
15	167		43			240		CO 3hrs
16	167		43			245		
17	166		45			<del>245</del>		
18	167		45			240		
19	167		45			240		
20	167		45			240		
21	167		45			240		
22	166		45			240		
23	166		<del>44</del>			240		
24	169		45			240		
25	169		44			240		opened to 60 MCF
26	166		44		153	230		flow 61
27	165		41		152	230		
28	165		61		152	200		
29	165		61			230		
30	166		61			235		
31	165		61			225		
Totals								

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Well Name: Miller 24-13

Pumper: \_\_\_\_\_ Month 6/06

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	166		61			232		
2	166		61		153	232		
3	162		60			<del>230</del>		
4	162		61			230		
5	164		60		151	230		CD 2hrs
6	165		61			230		
7	166		61			225		
8	165		60			225		
9	165		61			223		CD 1hr
10	<del>168</del>		60			238		<del>CD 1hr</del>
11	165		60			235		
12	165		60			235		
13	166		60			150		at well 16220
14	165		60			225		
15	165		59			225		
16	166		59			225		
17	166		60			225		
18	166		59			225		
19	166		59			225		
20	165		60			225		CD 2hr
21	164		59			230		
22	166		59			230		
23	167		59			230		
24	166		59			230		
25	165		59			230		
26	164		59			230		
27	166		59			218		
28	164		59			218		
29	164		59			218		
30	165		58			218		
31								

Totals

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