

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
1/25/2007

API No. 15  
181-20487-01 - 00

Company Rosewood Resources, Inc.		Lease Nemechek		Well Number 21-23H	
County Sherman	Location NENW	Section 1423	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 11/23/2007		Plug Back Total Depth 3207'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 3207'	Perforations 3121'	To 3136'
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) 3298'		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 1-25 _____ 20 _____ 07 at 4:30 (AM) ( <input checked="" type="radio"/> PM) Taken 1-26 _____ 20 _____ 07 at 4:45 (AM) ( <input checked="" type="radio"/> 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						60	74.4				
Flow						34	48.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</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>
						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> = \_\_\_\_\_

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	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: 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 26 day of March 20 07

Witness (if any)

For Commission

  
For Company

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Checked by KANSAS CORPORATION COMMISSION

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.

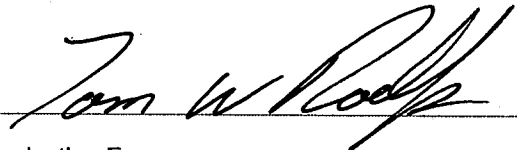
I hereby request a one-year exemption from open flow testing for the Nemechek 21-23H gas well on the grounds that said well:

(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: 3/26/2007

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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Monthly Gauge Sheet

Well Name: Nemechek 21-23H

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								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25	60							5+ Gas 4:30p 35mcf
26	57		22			45		
27	55		32			42		
28	55		29			42		
29	52		29			39		
30	51		31			38		
31	50		29			37		
Totals								

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 WICHITA, KS

Monthly Gauge Sheet ✓

Well Name: Nemehok 21-23H

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

Month 2/07

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	50		26			37		
2	49		26			36		
3	48		27			35		
4	48		23			35		
5	<del>48</del>		<del>25</del>			<del>35</del>		<del>BP</del>
6	47		26			34		
7	47		26			34		BP
8	46		25			33		
9	46		23			33		
10	46		24			33		
11	46		24			33		
12	45		24			32		
13	46		24			33		
14	46		25			33		
15	45		27			32		
16	46		25			33		
17	45		24			32		
18	45		24			32		
19	45		24			32		BP
20	45		22			32		BP
21	44		24			31		BP
22	44		24			31		
23	44		24			31		
24	44		24			31		
25	44		24			31		
26	43		23			30		<del>BP</del>
27	44		22			31		
28	43		19			30		
29								
30								
31								

Totals

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CONSERVATION DIVISION  
WICHITA, KS

ROSEWOOD RESOURCES, INC.  
DAILY PRODUCTION REPORT

March 2007

ORIF: EFM

WELL: Nemechek 21-23H

FIELD: Goodland

DATE	TUBING PRESSURE	CASING PRESSURE	GATH STATIC	GATH DIFF'L	GATH MCF	HRS ON	REMARKS
3/1/2007		30	43		24	24	
3/2/2007		30	43		24	24	
3/3/2007		30	43		24	24	
3/4/2007		30	43		24	24	
3/5/2007		30	43		23	24	
3/6/2007		29	42		24	24	
3/7/2007		30	43		24	24	
3/8/2007		29	42		24	24	
3/9/2007		29	42		24	24	
3/10/2007		29	42		24	24	
3/11/2007		29	42		24	24	
3/12/2007		29	42		24	24	
3/13/2007		29	42		24	24	
3/14/2007		28	41		24	24	
3/15/2007		28	41		24	24	
3/16/2007		28	41		23	24	
3/17/2007		28	41		23	23	CD 1HRS
3/18/2007		33	46		23	17	CD 7HRS
3/19/2007		29	42		19	24	
3/20/2007		28	41		24	24	
3/21/2007		28	41		24	24	
3/22/2007		28	41		24	24	
3/23/2007		28	41		24	24	
3/24/2007		28	41		24	24	
3/25/2007		28	41		24	24	
3/26/2007		28	41		23	24	
3/27/2007		28	41		23	24	
3/28/2007		28	41		23	24	
3/29/2007		28	41		23	24	
3/30/2007		28	41		23	24	
3/31/2007		28	41		23	24	

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