

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

Type Test:

- Open Flow  Deliverability

(See Instructions on Reverse Side)

Test Date:  
5/30/2013

API No. 15  
181-20460-0100

Company Rosewood Resources, Inc.		Lease Schwendener		Well Number 21-26H	
County Sherman	Location NENW	Section 26	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 9/17/2006		Plug Back Total Depth 3133'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 3133'	Perforations 3063'	To 3078'
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 type="checkbox"/> No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> .6	
Vertical Depth(H) 3456'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-29		20 13	at 1:20	(AM) (PM) Taken 5-30	20 13
Well on Line: Started 5-30		20 13	at 1:30	(AM) (PM) Taken 5-31	20 13
					at 1:30 (AM) (PM)
					at 2:20 (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>r</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>r</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						14	28.4				
Flow						5	19.4			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>
						6		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

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

(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 26 day of November, 20 13.

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*Janell Martney*  
For Company

Witness (if any)

For Commission

DEC 26 2013

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 Schwendener 21-26H 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: 11/26/13

Signature: Jannell Martiney  
Title: Production Assistant

**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. RECEIVED  
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WICHITA, KS

W2272  
 Schwendener 21-26H  
 North Goodland  
 Goodland  
 None  
 May-13

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2013	5	18		5	0
5/2/2013	5	18		5	0
5/3/2013	5	18		5	0
5/4/2013	5	18		5	0
5/5/2013	5	18		5	0
5/6/2013	5	18		5	0
5/7/2013	5	18		5	0
5/8/2013	5	18		5	0 bp
5/9/2013	5	18		5	0
5/10/2013	5	18		5	0
5/11/2013	5	18		5	0
5/12/2013	5	18		5	0
5/13/2013	5	18		6	0
5/14/2013	5	18		6	0
5/15/2013	5	18		6	0
5/16/2013	5	18		6	0
5/17/2013	5	18		6	0
5/18/2013	5	18		6	0
5/19/2013	5	18		6	0
5/20/2013	5	18		6	0
5/21/2013	5	18		6	0
5/22/2013	5	18		6	0
5/23/2013	5	18		6	0
5/24/2013	5	18		6	0
5/25/2013	5	18		6	0
5/26/2013	5	18		6	0
5/27/2013	5	18		6	0
5/28/2013	4	17		6	0
5/29/2013	4	17		6	0 shut in
5/30/2013	14	27		0	24 opened up
5/31/2013	5	18		7	0

Total

169

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CONSERVATION DIVISION  
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W2272  
 Schwendener 21-26H  
 North Goodland  
 Goodland  
 None  
 June-13

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	5	18		6	0
6/2/2013	5	18		6	0
6/3/2013	5	18		6	0
6/4/2013	5	18		6	0
6/5/2013	5	18		6	0
6/6/2013	5	18		6	0
6/7/2013	5	18		6	0
6/8/2013	5	18		6	0
6/9/2013	5	18		6	0
6/10/2013	5	18		6	0
6/11/2013	5	18		6	3
6/12/2013	4	17		5	0
6/13/2013	5	18		6	0
6/14/2013	5	18		6	0
6/15/2013	5	18		6	0
6/16/2013	5	18		6	0
6/17/2013	5	18		6	0
6/18/2013	5	18		6	0
6/19/2013	5	18		6	0
6/20/2013	5	18		6	0
6/21/2013	5	18		6	0
6/22/2013	5	18		6	0
6/23/2013	5	18		6	0
6/24/2013	5	18		6	0
6/25/2013	5	18		6	0
6/26/2013	5	18		6	0
6/27/2013	5	18		6	0
6/28/2013	5	18		6	0
6/29/2013	5	18		6	0
6/30/2013	5	18		6	0
7/1/2013					0

Total

179

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