

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
1/18/2012

API No. 15  
023-21307-0100

Company Rosewood Resources, Inc.		Lease Zimbelman			Well Number 43-13D	
County Cheyenne	Location NESE	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80	
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.		
Completion Date 1/18/2012		Plug Back Total Depth 1741'		Packer Set at		
Casing Size 4.5"	Weight 11.6#	Internal Diameter 4.000	Set at 1783'	Perforations 1567'	To 1607'	
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) 1800'		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 1-18 _____ 20 _____ at 9:15 _____ (AM)(PM) Taken 1-19 _____ 20 _____ at 9:30 _____ (AM)(PM)						

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### 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>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						190	204.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>c</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>dv</sub>	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						40		

### (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 (Mcf/d)

Open Flow Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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 December, 20 12.

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

*Jannell Oliver*  
For Company

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

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

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Form G-2  
(Rev. 7/03)

## KCC WICHITA

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 Zimbelman 43-13D 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: 12/20/12

Signature: 

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.

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Zimbelman 43-13D

St. Francis

St. Francis

None

January-12

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DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBL	REMARKS (Maximum length 110 characters)
	PSI	PSI						
1/1/2012								
1/2/2012								
1/3/2012								
1/4/2012								
1/5/2012								
1/6/2012								
1/7/2012								
1/8/2012								
1/9/2012								
1/10/2012								
1/11/2012								
1/12/2012								
1/13/2012								
1/14/2012								
1/15/2012								
1/16/2012								
1/17/2012								
1/18/2012								First Gas After Frac
1/19/2012		100	99	25				
1/20/2012		121	134	42				
1/21/2012		126	140	53				
1/22/2012		117	125	53				
1/23/2012		113	133	52				
1/24/2012		150	157	52				
1/25/2012		121	140	53				
1/26/2012		121	143	53				
1/27/2012		125	138	52				
1/28/2012		123	140	52				
1/29/2012		125	138	52				
1/30/2012		127	140	53				
1/31/2012		128	142	52				

Total

644

0

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Zimbelman 43-13D

St. Francis

St. Francis

None

February-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
2/1/2012		128	139	54				
2/2/2012		125	139	53				
2/3/2012		128	139	53				
2/4/2012		130	141	54				
2/5/2012		126	140	54				
2/6/2012		135	149	54				
2/7/2012		127	140	54				
2/8/2012		128	141	53				
2/9/2012		128	141	54				
2/10/2012		133	142	54				
2/11/2012		122	135	56				
2/12/2012		134	147	51				
2/13/2012		130	142	52				
2/14/2012		130	140	54				
2/15/2012		131	142	54				
2/16/2012		128	141	54				
2/17/2012		129	138	55				
2/18/2012		127	141	53				
2/19/2012		124	137	53				
2/20/2012		124	137	52				
2/21/2012		121	134	51				
2/22/2012		121	134	51				
2/23/2012		123	133	50				
2/24/2012		122	133	51				
2/25/2012		121	134	51				
2/26/2012		121	134	51				
2/27/2012		118	129	50				
2/28/2012		122	133	50				
2/29/2012		122	134	51				
3/1/2012								
3/2/2012								

Total

1527

0

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Zimbelman 43-13D

St. Francis

St. Francis

None

March-12

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLIDOWN	HRS	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI							
3/1/2012		125	133	49					
3/2/2012		120	132	49					
3/3/2012		121	130	48					
3/4/2012		120	130	50					
3/5/2012		121	131	50					
3/6/2012		121	132	50					
3/7/2012		121	136	50					
3/8/2012		121	131	48					
3/9/2012		121	132	50					
3/10/2012		122	132	50					
3/11/2012		122	132	50					
3/12/2012		121	132	48					
3/13/2012		119	130	49					
3/14/2012		120	131	49					
3/15/2012		119	132	49					
3/16/2012		119	132	49					
3/17/2012		118	132	49					
3/18/2012		121	132	49					
3/19/2012		120	131	49					
3/20/2012		120	131	49					
3/21/2012		122	132	49					
3/22/2012		120	133	49					
3/23/2012		120	133	50					
3/24/2012		120	133	50					
3/25/2012		121	134	50					
3/26/2012		124	137	50					
3/27/2012		125	138	51					
3/28/2012		125	135	51					
3/29/2012		124	137	51			1		
3/30/2012		123	136	44					
3/31/2012		121	134	50					

Total

1529

0