

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow **BSI**  
 Deliverability

Test Date:  
6/28/2012

API No. 15  
023-20436-00-00

Company Rosewood Resources		Lease Bucholtz		Well Number 1-14	
County Cheyenne	Location SWNW	Section 14	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cheyenne		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 12-21-2002		Plug Back Total Depth 1504'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1508'	Perforations 1352'	To 1390'
Tubing Size none	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes / No Pumping Unit <input checked="" type="radio"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1390'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-27 20 12 at 10:50 (AM) (PM)		Taken 6-28 20 12 at 11:00 (AM) (PM)			
Well on Line: Started 6-28 20 12 at 11:00 (AM) (PM)		Taken 6-29 20 12 at 11:50 (AM) (PM)			

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**OBSERVED SURFACE DATA**

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						167	181.4				
Flow						67	81.4			24	0

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (F <sub>s</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>
						4		

**(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: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" ----- 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 19 day of December, 20 12.

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

*Gannell Geow*  
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.

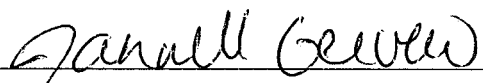
I hereby request a one-year exemption from open flow testing for the Bucholtz 1-14 gas well on the grounds that said well:

(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: 12/19/12

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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W342

Bucholtz 01-14

St. Francis

St. Francis

Pumping Unit

June-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
6/1/2012		46	59	4			
6/2/2012		46	59	4			
6/3/2012		50	63	4			
6/4/2012		47	60	4			
6/5/2012		49	62	4			
6/6/2012		48	61	4			
6/7/2012		49	62	4			
6/8/2012		51	64	4			
6/9/2012		50	63	4			
6/10/2012		50	66	4			
6/11/2012		50	63	4			
6/12/2012		50	63	4			
6/13/2012		50	63	4			
6/14/2012		50	63	4			
6/15/2012		50	63	4			
6/16/2012		50	63	4			
6/17/2012		49	62	4			
6/18/2012		50	63	4			
6/19/2012		56	69	4			
6/20/2012		60	73	4			
6/21/2012		67	80	4			
6/22/2012		69	82	4			
6/23/2012		67	80	4			
6/24/2012		72	85	4			
6/25/2012		71	84	4			
6/26/2012		66	79	4			
6/27/2012		63	76	4			cp 70 si for state test
6/28/2012		<del>67</del> 167	84	0	24		cp167 opened
6/29/2012		67	80	5			
6/30/2012		56	69	5			
7/1/2012							

Total

118

0

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W342

Bucholtz 01-14

St. Francis

St. Francis

Pumping Unit

July-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2012		57	70	4				
7/2/2012		50	63	4			3	
7/3/2012		66	79	4				
7/4/2012		47	60	4				
7/5/2012		46	59	4				
7/6/2012		71	83	4			1	
7/7/2012		52	65	4				
7/8/2012		55	68	4				
7/9/2012		52	65	4				
7/10/2012		51	64	4				
7/11/2012		49	62	4				
7/12/2012		52	65	4				
7/13/2012		48	61	4				
7/14/2012		55	68	4				
7/15/2012		49	62	4				
7/16/2012		67	80	4			1.5	
7/17/2012		53	66	4				
7/18/2012		62	75	4				
7/19/2012		58	71	4			0.5	
7/20/2012		55	68	4				
7/21/2012		58	71	4				
7/22/2012		52	65	4				
7/23/2012		60	73	4			0.5	
7/24/2012		62	75	4				
7/25/2012		64	77	4				
7/26/2012		59	72	4				
7/27/2012		75	88	3			5	
7/28/2012		60	73	3				
7/29/2012		48	61	4				
7/30/2012		46	59	4				
7/31/2012		46	59	4				

Total

122

0

W342

Bucholtz 01-14

St. Francis

St. Francis

Pumping Unit

August-12

FloBoss

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012		57	70		4				
8/2/2012		50	63		4				
8/3/2012		50	63		4				
8/4/2012		47	60		4				
8/5/2012		58	71		3				
8/6/2012		48	61		3				
8/7/2012		59	72		3				
8/8/2012		52	65		3				
8/9/2012		51	64		3				
8/10/2012		67	80		3				
8/11/2012		50	63		3		1.5		
8/12/2012		47	60		4				
8/13/2012		47	60		3				
8/14/2012		51	64		3				
8/15/2012		61	74		3				
8/16/2012		51	64		3				
8/17/2012		35	48		3				
8/18/2012		57	70		3				
8/19/2012		56	69		3				
8/20/2012		47	60		3				
8/21/2012		54	67		3				
8/22/2012		50	63		3				
8/23/2012		58	71		3				
8/24/2012		56	69		3				
8/25/2012		62	75		2				
8/26/2012		60	73		3				
8/27/2012		48	61		3				
8/28/2012		50	63		3				
8/29/2012		51	64		3				
8/30/2012		50	63		3				
8/31/2012		49	62		3				

Total

97

0