

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow  **SD**  
 Deliverability

Test Date:  
6/22/14

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? <input checked="" type="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1390'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14 at 10:50		(AM) (PM) Taken 6-20	
Well on Line: Started 6-22		20 14 at 11:00		(AM) (PM) Taken 6-23	
		20 14 at 11:00		(AM) (PM) Taken 6-23	
		20 14 at 11:00		(AM) (PM) Taken 6-23	

### OBSERVED SURFACE DATA

Duration of Shut-in 360 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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						193	207.4				
Flow						45	59.4			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>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						4		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>c</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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

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 12 day of December, 20 14.

Received  
KANSAS CORPORATION COMMISSION

*Samuel Martiny*  
For Company

Witness (if any)

FEB 25 2015

For Commission

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 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: 12/12/14

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**FEB 25 2015**  
CONSERVATION DIVISION  
WICHITA, KS

Signature: *Samuel Martusek*  
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.

W342

Bucholtz 01-14

St. Francis

St. Francis

Pumping Unit

June-184

FloBoss

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	48	61	3	0
6/2/2013	53	66	1	0
6/3/2013	57	70	3	0
6/4/2013	60	73	1	0
6/5/2013	43	56	4	0
6/6/2013	44	57	4	0
6/7/2013	164	177	2	9
6/8/2013	188	201	0	24
6/9/2013	189	202	0	24
6/10/2013	189	202	0	24
6/11/2013	190	203	0	24
6/12/2013	190	203	0	24
6/13/2013	191	204	0	24
6/14/2013	191	204	0	24
6/15/2013	192	205	0	24
6/16/2013	192	205	0	24
6/17/2013	192	205	0	24
6/18/2013	192	205	0	24
6/19/2013	192	205	0	24
6/20/2013	193	206	0	24
6/21/2013	193	206	0	24
6/22/2013	193	206	0	24
6/23/2013	114	127	9	5
6/24/2013	104	117	6	0
6/25/2013	98	111	6	0
6/26/2013	87	100	5	0
6/27/2013	78	91	5	0
6/28/2013	57	70	5	0
6/29/2013	46	59	5	0
6/30/2013	47	60	4	0
7/1/2013				0

Total

63

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CONSERVATION DIVISION  
WICHITA, KS

W342

Bucholtz 01-14

St. Francis

St. Francis

Pumping Unit

July-14

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	47	60		4	0
7/2/2014	47	60		4	0
7/3/2014	48	61		4	0
7/4/2014	48	61		4	0
7/5/2014	49	62		4	0
7/6/2014	49	62		4	0
7/7/2014	51	64		4	0
7/8/2014	51	65		4	0
7/9/2014	53	66		4	0
7/10/2014	53	66		4	0
7/11/2014	53	66		4	0
7/12/2014	54	67		4	0
7/13/2014	55	68		3	0
7/14/2014	67	80		3	0
7/15/2014	44	57		4	0
7/16/2014	44	57		4	0
7/17/2014	45	58		4	0
7/18/2014	46	59		4	0
7/19/2014	43	56		4	0
7/20/2014	43	56		4	0
7/21/2014	43	56		4	0
7/22/2014	124	137		4	22
7/23/2014	127	140		0	7
7/24/2014	69	82		4	3
7/25/2014	51	65		4	4
7/26/2014	44	57		4	0
7/27/2014	43	56		3	0
7/28/2014	46	59		4	0
7/29/2014	45	58		4	0
7/30/2014	47	60		4	0
7/31/2014	47	60		2	0

Total

115

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WICHITA, KS

W342  
 Bucholtz 01-14  
 St. Francis  
 St. Francis  
 Pumping Unit  
 August-14  
 FloBoss

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	47	60	2	0
8/2/2014	46	59	2	0
8/3/2014	46	59	2	0
8/4/2014	46	59	2	0
8/5/2014	47	60	2	0
8/6/2014	48	61	2	0
8/7/2014	49	62	5	0
8/8/2014	49	62	5	0
8/9/2014	51	64	4	0
8/10/2014	52	65	4	0
8/11/2014	51	64	4	0
8/12/2014	46	59	4	0
8/13/2014	47	60	4	0
8/14/2014	46	59	4	0
8/15/2014	52	65	4	3
8/16/2014	51	64	3	0
8/17/2014	52	65	3	0
8/18/2014	52	65	3	0
8/19/2014	60	73	3	2
8/20/2014	49	62	1	0
8/21/2014	49	62	1	0
8/22/2014	48	61	1	0
8/23/2014	44	57	3	0
8/24/2014	47	60	3	0
8/25/2014	63	76	2	0
8/26/2014	49	62	4	0
8/27/2014	50	63	4	0
8/28/2014	76	89	4	0
8/29/2014	44	57	4	5
8/30/2014	44	57	4	0
8/31/2014	60	73	3	0

Total

#REF!

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**FEB 25 2015**

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