

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **MSI**
 Deliverability

Test Date:
5/9/2013

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 5-8 20 13 at 10:50 (AM) (PM) Taken 5-9 20 13 at 11:00 (AM) (PM)		Well on Line: Started 5-9 20 13 at 11:00 (AM) (PM) Taken 5-10 20 13 at 11:50 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						174	188.4				
Flow						50	64.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						3		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(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 _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	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" ----- 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 21 day of November, 20 13.

KCC WICHITA *Annul Montiny*
For Company

Witness (if any)

For Commission

DEC 26 2013

Checked by

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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: 11/21/13

Signature: Jarrell 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.

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W342
 Bucholtz 01-14
 St. Francis
 St. Francis
 Pumping Unit
 May-13
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2013		52	65	3	
5/2/2013		59	72	3	
5/3/2013		58	71	2	
5/4/2013		30	43	3	
5/5/2013		46	62	3	
5/6/2013		44	57	3	
5/7/2013		47	60	3	
5/8/2013		50	63	3	si for state test - cp 62
5/9/2013		90	103	0	24 reopened - cp 174
5/10/2013		65	78	4	
5/11/2013		57	70	4	
5/12/2013		56	69	4	
5/13/2013		58	71	4	
5/14/2013		61	74	4	
5/15/2013		96	109	4	2.5
5/16/2013		72	85	4	
5/17/2013		56	69	3	treated well
5/18/2013		49	62	3	
5/19/2013		60	73	3	
5/20/2013		53	66	3	
5/21/2013		59	72	3	
5/22/2013		60	73	3	14
5/23/2013		164	177	2	10
5/24/2013		102	115	3	4
5/25/2013		89	102	1	
5/26/2013		84	97	1	
5/27/2013		81	94	1	
5/28/2013		70	83	1	
5/29/2013		61	74	3	
5/30/2013		49	62	3	
5/31/2013		49	62	3	

Total

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Bucholtz 01-14

St. Francis

St. Francis

Pumping Unit

June-13

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	40	53		3	
6/2/2013	46	59		3	
6/3/2013	43	56		3	
6/4/2013	41	54		3	
6/5/2013	49	62		3	
6/6/2013	56	69		3	
6/7/2013	50	63		3	
6/8/2013	46	59		3	
6/9/2013	50	63		3	
6/10/2013	40	53		3	2
6/11/2013	71	84		3	1
6/12/2013	69	82		4	
6/13/2013	51	64		4	
6/14/2013	50	63		4	
6/15/2013	56	69		4	
6/16/2013	58	71		4	
6/17/2013	52	65		4	
6/18/2013	45	58		4	
6/19/2013	42	55		4	
6/20/2013	49	62		4	
6/21/2013	56	69		4	
6/22/2013	75	88		4	
6/23/2013	76	89		1	
6/24/2013	73	86		1	
6/25/2013	77	90		1	
6/26/2013	75	88		1	
6/27/2013	68	81		1	
6/28/2013	46	59		4	
6/29/2013	47	60		4	
6/30/2013	46	59		4	
7/1/2013					

Total

94

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W342
 Bucholtz 01-14
 St. Francis
 St. Francis
 Pumping Unit
 July-13
 FloBoss

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	48	61	4	
7/2/2013	50	63	4	
7/3/2013	48	61	4	
7/4/2013	51	64	4	
7/5/2013	51	64	4	
7/6/2013	51	64	4	
7/7/2013	64	77	4	
7/8/2013	61	74	2	
7/9/2013	59	72	2	
7/10/2013	56	69	3	
7/11/2013	60	73	3	
7/12/2013	66	79	1	
7/13/2013	71	84	2	2.5
7/14/2013	72	85	0	
7/15/2013	52	65	2	
7/16/2013	49	62	2	
7/17/2013	45	58	3	
7/18/2013	76	89	1	
7/19/2013	68	81	0	
7/20/2013	69	82	0	
7/21/2013	70	83	0	
7/22/2013	66	79	0	
7/23/2013	63	76	2	
7/24/2013	70	83	0	
7/25/2013	60	73	0	
7/26/2013	61	74	0	
7/27/2013	48	61	3	
7/28/2013	49	62	3	
7/29/2013	48	61	3	
7/30/2013	48	61	3	3.5
7/31/2013	91	104	2	5.5

Total

65

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