

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**
 Deliverability

Test Date:
7/9/2015

API No. 15
023-20429-01-00

Company Rosewood Resources		Lease Bucholtz		Well Number 2-15H	
County Cheyenne	Location SENESE	Section 15	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-9-2001		Plug Back Total Depth 2803'		Packer Set at	
Casing Size 7"	Weight 20#	Internal Diameter 6.456	Set at 1579'	Perforations 1579' MD	To 2803'MD
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? <input checked="" type="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1579'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-9		20 15 at 10:55		(AM) (PM) Taken 7-10	
Well on Line: Started 7-10		20 15 at 11:05		(AM) (PM) Taken 7-11	
				20 15 at 11:05 (AM) (PM)	
				20 15 at 11:55 (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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						73	87.4				
Flow						40	54.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						2		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_c)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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 18 day of December, 20 15.

Witness (if any) **KGC WICHITA** *Janell Martiny* For Company

For Commission **APR 07 2016** 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 2-15H 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: 12/18/15

KCC WICHITA Signature: Jennell Martin

APR 07 2016

Title: Production Assistant

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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.

W344

Bacholz, 02-15-11

St. Francis

St. Francis

Pumping Unit/Gas

July-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2015		41	54		2	0	0	0	
7/2/2015		41	54		2	0	0	0	
7/3/2015		41	54		2	0	0	0	
7/4/2015		41	54		2	0	0	0	
7/5/2015		41	54		1	0	0	0	
7/6/2015		41	55		2	0	0	2	
7/7/2015		41	53		2	0	0	0	
7/8/2015		41	53		2	0	0	16	
7/9/2015		50	169		0	0	0	24	
7/10/2015		73	188		0	0	0	14	
7/11/2015		100	95		0	0	0	0	
7/12/2015		71	85		2	0	0	0	
7/13/2015		41	71		3	0	0	0	
7/14/2015		41	55		3	0	0	0	
7/15/2015		41	53		2	0	0	0	
7/16/2015		41	54		2	0	0	0	
7/17/2015		40	53		2	0	0	0	
7/18/2015		40	53		2	0	0	0	
7/19/2015		40	53		2	0	0	0	
7/20/2015		40	52		2	0	0	0	
7/21/2015		41	56		1	0	0	2	0 *
7/22/2015		40	53		2	0	0	0	
7/23/2015		40	53		2	0	0	0	
7/24/2015		40	53		2	0	0	0	
7/25/2015		40	53		2	0	0	0	
7/26/2015		40	53		2	0	0	0	
7/27/2015		40	52		2	0	0	0	
7/28/2015		40	52		2	0	0	0	
7/29/2015		40	52		2	0	0	0	
7/30/2015		40	52		2	0	0	0	
7/31/2015		40	52		2	0	0	0	
Total					56			0	

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Bachbit 202 (5) L

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Pumping Unit/Gas

August-15

DATE	Tubing PSI	Casing PSI	STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2015		43	53	2	0	0	0	
8/2/2015		44	53	2	0	0	0	
8/3/2015		45	54	2	0	0	0	
8/4/2015		43	53	2	0	0	0	
8/5/2015		43	52	2	0	0	0	
8/6/2015		43	52	2	0	0	0	
8/7/2015		43	53	2	0	0	0	
8/8/2015		43	52	2	0	0	0	
8/9/2015		43	52	2	0	0	0	
8/10/2015		43	52	2	0	0	0	
8/11/2015		43	53	2	0	0	0	
8/12/2015		43	53	2	0	0	0	
8/13/2015		43	53	2	0	0	0	
8/14/2015		43	54	2	0	0	0	
8/15/2015		43	55	2	0	0	0	
8/16/2015		43	56	2	0	0	0	
8/17/2015		43	54	2	0	0	0	
8/18/2015		43	55	2	0	0	0	
8/19/2015		43	56	2	0	0	0	
8/20/2015		43	55	2	0	0	0	
8/21/2015		43	56	2	0	0	0	
8/22/2015		43	57	1	0	0	0	
8/23/2015		43	57	2	0	0	0	
8/24/2015		40	57	1	0	0	0	
8/25/2015		40	58	1	0	0	0	
8/26/2015		40	54	2	0	0	0	
8/27/2015		40	55	2	0	0	0	
8/28/2015		40	55	2	0	0	0	
8/29/2015		40	58	1	0	0	0	
8/30/2015		40	61	1	0	0	4	
8/31/2015		40	62	1	0	0	0	

Total

56

0

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Bucholtz 02-15H

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St. Francis

Pumping Unit/Gas

September-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2015		57	70		2			0	
9/2/2015		57	70		2			0	
9/3/2015		57	70		2			0	
9/4/2015		57	70		2			0	
9/5/2015		57	70		2			0	
9/6/2015		57	70		2			0	
9/7/2015		57	70		2			0	
9/8/2015		57	70		2			0	
9/9/2015		57	70		2			0	
9/10/2015		57	70		2			0	
9/11/2015		57	70		2			0	
9/12/2015		57	70		2			0	
9/13/2015		57	70		2			0	
9/14/2015		57	70		2			0	
9/15/2015		57	70		2			0	
9/16/2015		57	70		2			0	
9/17/2015		57	70		2			0	
9/18/2015		57	70		2			0	
9/19/2015		57	70		2			0	
9/20/2015		57	70		2			0	
9/21/2015		57	70		2			0	
9/22/2015		57	70		2			0	
9/23/2015		57	70		2			0	
9/24/2015		57	70		2			0	
9/25/2015		57	70		2			0	
9/26/2015		57	70		2			0	
9/27/2015		57	70		2			0	
9/28/2015		57	70		2			0	
9/29/2015		57	70		2			0	
9/30/2015		57	70		2			0	
10/1/2015		-13						0	

Total

60

0

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