

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **ASD**
 Deliverability

Test Date:
6/22/14

API No. 15
023-20429-01-00

Company Rosewood Resources		Lease Bucholtz		Well Number 2-15H	
County Cheyenne	Location NESE	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="checkbox"/> 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 6-7		20 14 at 10:55		(AM) (PM) Taken 6-16	
Well on Line: Started 6-22		20 14 at 11:05		(AM) (PM) Taken 6-23	
		20 14 at 11:05		(AM) (PM) Taken 6-23	
		20 14 at 11:55		(AM) (PM)	

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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _o)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _o)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						231	245.4				
Flow						46	60.4			360	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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						2		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_o)² = 0.207
(P_o)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_o = _____ % (P_c - 14.4) + 14.4 = _____

(P _c) ² - (P _o) ² or (P _c) ² - (P _w) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	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 12 day of December, 20 14.

Received
KANSAS CORPORATION COMMISSION

Samuel Martiny
For Company

Witness (if any) _____

FEB 25 2015

For Commission _____ Checked by _____

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: 12/12/14

Received
KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Samuel 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.

W344
 Bucholtz 02-15H
 St. Francis
 St. Francis
 Pumping Unit/Gas
 June-13~~4~~

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	47	60		2	0
6/2/2013	59	72		2	0
6/3/2013	69	82		2	0
6/4/2013	71	84		2	0
6/5/2013	41	55		3	0
6/6/2013	41	55		3	0
6/7/2013	171	184		1	9
6/8/2013	175	188		0	24
6/9/2013	177	190		0	24
6/10/2013	180	193		0	24
6/11/2013	180	193		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	231	244		0	24
6/17/2013	231	244		0	24
6/18/2013	231	244		0	24
6/19/2013	231	244		0	24
6/20/2013	231	244		0	24
6/21/2013	231	244		0	24
6/22/2013	231	244		0	24
6/23/2013	116	129		7	5
6/24/2013	106	119		7	0
6/25/2013	96	107		7	0
6/26/2013	83	96		7	0
6/27/2013	78	91		3	0
6/28/2013	57	70		3	0
6/29/2013	55	68		3	0
6/30/2013	51	64		3	0
7/1/2013					0

Total

55

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 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W344

Bucholtz 02-15H

St. Francis

St. Francis

Pumping Unit/Gas

July-14

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	47	60		3	0
7/2/2014	47	60		3	0
7/3/2014	47	60		2	0
7/4/2014	47	60		2	0
7/5/2014	48	61		2	0
7/6/2014	48	61		2	0
7/7/2014	65	78		1	0
7/8/2014	59	72		2	0
7/9/2014	59	72		2	0
7/10/2014	60	73		2	0
7/11/2014	61	74		2	0
7/12/2014	62	75		2	0
7/13/2014	62	75		2	0
7/14/2014	71	84		2	0
7/15/2014	61	74		2	0
7/16/2014	61	74		2	0
7/17/2014	44	57		2	0
7/18/2014	44	57		2	0
7/19/2014	44	57		2	0
7/20/2014	44	57		2	0
7/21/2014	54	67		2	0
7/22/2014	175	188		0	22
7/23/2014	73	86		0	7
7/24/2014	52	65		2	3
7/25/2014	44	57		2	4
7/26/2014	43	56		3	0
7/27/2014	44	57		2	0
7/28/2014	46	59		2	0
7/29/2014	46	59		2	0
7/30/2014	41	54		2	0
7/31/2014	41	54		2	0

Total

60

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FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

W344
 Bucholtz 02-15H
 St. Francis
 St. Francis
 Pumping Unit/Gas
 August-14

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	46	59		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	46	59		2	0
8/6/2014	46	59		2	0
8/7/2014	46	60		2	0
8/8/2014	46	59		2	0
8/9/2014	48	61		3	0
8/10/2014	50	63		2	0
8/11/2014	47	60		1	0
8/12/2014	46	59		2	0
8/13/2014	46	59		2	0
8/14/2014	46	59		2	0
8/15/2014	58	71		2	3
8/16/2014	58	71		2	0
8/17/2014	58	71		2	0
8/18/2014	51	64		2	0
8/19/2014	56	69		2	2
8/20/2014	56	69		2	0
8/21/2014	49	62		2	0
8/22/2014	69	82		2	0
8/23/2014	44	57		2	0
8/24/2014	46	59		2	0
8/25/2014	60	73		2	0
8/26/2014	60	73		2	0
8/27/2014	60	73		2	0
8/28/2014	60	73		2	0
8/29/2014	54	67		2	5
8/30/2014	54	67		2	0
8/31/2014	67	80		2	0

Total

62

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 KANSAS CORPORATION COMMISSION

FEB 25 2015

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 WICHITA, KS