

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **EST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/14

API No. 15
023-21307-0100

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 43-13D	
County Cheyenne	Location NESE	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 1/18/2012		Plug Back Total Depth 1741'		Packer Set at	
Casing Size 4.5"	Weight 11.6#	Internal Diameter 4.000	Set at 1783'	Perforations 1567'	To 1607'
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? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1800'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7 20 14 at 6:00 (AM) (PM) Taken 6-21 20 14 at 6:15 (AM) (PM)		Well on Line: Started 6-22 20 14 at 6:15 (AM) (PM) Taken 6-23 20 14 at 6:30 (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 _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						161	175.4				
Flow						125	139.4			360	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						42		

(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 _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 _w 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 (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

Arnold Matney
For Company

Witness (if any)

FEB 25 2015

For Commission

CONSERVATION DIVISION
WICHITA, KS

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 Zimbelman 43-13D 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

Signature: *James H. Martens*

FEB 25 2015

Title: Production Assistant

CONSERVATION DIVISION
WICHITA, KS

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.

W2763

Zimbelman 43-13D

St. Francis

St. Francis

None

June-1⁸⁴

FloBoss

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
6/1/2013 ⁴	134	147		44	0	
6/2/2013	133	146		42	0	
6/3/2013	133	146		42	0	
6/4/2013	133	146		40	0	
6/5/2013	132	145		42	0	
6/6/2013	132	145		42	0	
6/7/2013	142	155		27	9	
6/8/2013	145	158		0	24	
6/9/2013	148	161		0	24	
6/10/2013	151	164		0	24	
6/11/2013	152	165		0	24	
6/12/2013	153	166		0	24	
6/13/2013	154	167		0	24	
6/14/2013	156	169		0	24	
6/15/2013	156	169		0	24	
6/16/2013	157	170		0	24	
6/17/2013	158	171		0	24	
6/18/2013	159	172		0	24	
6/19/2013	160	173		0	24	
6/20/2013	160	173		0	24	
6/21/2013	161	174		0	24	
6/22/2013	161	174		0	24	
6/23/2013	150	163		26	5	
6/24/2013	147	160		38	0	
6/25/2013	146	159		40	0	
6/26/2013	143	156		41	0	
6/27/2013	142	155		42	0	
6/28/2013	140	153		44	0	
6/29/2013	139	152		44	0	
6/30/2013	138	151		45	0	
7/1/2013					0	

Total

599

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CONSERVATION DIVISION
WICHITA, KS

W2763

Zimbelman 43-13D

St. Francis

St. Francis

None

July-14

FloBoss

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
7/1/2014	136	149		45	0	
7/2/2014	136	149		45	0	
7/3/2014	135	148		44	0	
7/4/2014	135	148		44	0	
7/5/2014	134	147		44	0	
7/6/2014	133	146		44	0	
7/7/2014	132	145		43	0	
7/8/2014	132	145		43	0	
7/9/2014	132	145		43	0	
7/10/2014	132	144		43	0	
7/11/2014	131	146		43	0	
7/12/2014	130	143		43	0	
7/13/2014	130	143		30	0	
7/14/2014	130	143		42	0	
7/15/2014	129	142		42	0	
7/16/2014	129	142		42	0	
7/17/2014	129	142		42	0	
7/18/2014	128	141		42	0	
7/19/2014	128	141		42	0	
7/20/2014	128	141		42	0	
7/21/2014	135	148		42	0	
7/22/2014	139	152		5	22	
7/23/2014	132	145		26	7	
7/24/2014	130	143		40	3	
7/25/2014	129	142		35	4	
7/26/2014	128	141		44	0	
7/27/2014	128	141		44	0	
7/28/2014	127	140		44	0	
7/29/2014	127	140		42	0	
7/30/2014	126	139		42	0	
7/31/2014	126	139		42	0	

Total

1254

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FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

W2763
 Zimbelman 43-13D
 St. Francis
 St. Francis
 None
 August-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	126	139		42	0
8/2/2014	125	138		42	0
8/3/2014	125	138		42	0
8/4/2014	125	138		42	0
8/5/2014	124	137		42	0
8/6/2014	121	134		41	0
8/7/2014	124	137		41	0
8/8/2014	124	137		41	0
8/9/2014	124	137		41	0
8/10/2014	123	136		41	0
8/11/2014	123	136		41	0
8/12/2014	123	136		41	0
8/13/2014	123	136		41	0
8/14/2014	122	135		41	0
8/15/2014	123	136		35	3
8/16/2014	123	136		40	0
8/17/2014	122	135		40	0
8/18/2014	122	135		40	0
8/19/2014	122	135		37	2
8/20/2014	122	135		39	0
8/21/2014	122	135		39	0
8/22/2014	122	135		39	0
8/23/2014	121	134		39	0
8/24/2014	121	134		40	0
8/25/2014	121	134		40	0
8/26/2014	121	134		40	0
8/27/2014	121	134		40	0
8/28/2014	123	136		40	0
8/29/2014	122	135		30	5
8/30/2014	121	134		40	0
8/31/2014	121	134		40	0

Total 1237

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 WICHITA, KS