

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **ST**
- Deliverability

Test Date:
6/22/14

API No. 15
023-21252-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 44-24	
County Cheyenne	Location SESE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/20/2010		Plug Back Total Depth 1495'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1535'	Perforations 1320'	To 1350'
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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1550'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14 at 5:35		(AM) (PM) Taken 6-16	
Well on Line: Started 6-22		20 14 at 5:50		(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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						231	245.4				
Flow						58	72.4			360	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _d) (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
						18		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P₂)² = 0.207

(P_c)² = _____ ; (P_w)² = _____ ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_d)² = _____

(P _c) ² - (P _s) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow

Mcf/d @ 14.65 psia

Deliverability

Mcf/d @ 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 Martinez
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 Zweygardt 44-24 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: *Arnold Mautney*
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.

W2738

Zweygardt 44-24

St. Francis

St. Francis

Flow

June-18th

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	59	72		20	0
6/2/2013	64	77		19	0
6/3/2013	79	92		19	0
6/4/2013	71	84		19	0
6/5/2013	55	68		20	0
6/6/2013	57	70		20	0
6/7/2013	176	189		10	9
6/8/2013	189	202		0	24
6/9/2013	201	214		0	24
6/10/2013	213	226		0	24
6/11/2013	222	235		0	24
6/12/2013	227	240		0	24
6/13/2013	229	242		0	24
6/14/2013	230	243		0	24
6/15/2013	229	242		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	226	239		0	24
6/20/2013	201	214		0	24
6/21/2013	184	197		0	24
6/22/2013	184	197		0	24
6/23/2013	119	132		0	5
6/24/2013	110	123		0	0
6/25/2013	107	120		10	0
6/26/2013	103	116		31	0
6/27/2013	91	104		31	0
6/28/2013	63	76		25	0
6/29/2013	61	74		23	0
6/30/2013	62	75		22	0
7/1/2013					0

Total

269

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WICHITA, KS

W2738

Zweygardt 44-24

St. Francis

St. Francis

Flow

July-14

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	62	75		22	0
7/2/2014	62	75		21	0
7/3/2014	62	75		21	0
7/4/2014	62	75		21	0
7/5/2014	62	75		21	0
7/6/2014	62	75		21	0
7/7/2014	72	85		19	0
7/8/2014	62	75		19	0
7/9/2014	64	77		19	0
7/10/2014	64	77		19	0
7/11/2014	67	80		19	0
7/12/2014	66	79		19	0
7/13/2014	67	80		19	0
7/14/2014	88	101		19	0
7/15/2014	58	71		19	0
7/16/2014	60	73		19	0
7/17/2014	61	74		19	0
7/18/2014	62	75		19	0
7/19/2014	59	72		18	0
7/20/2014	59	72		18	0
7/21/2014	134	147		18	0
7/22/2014	133	146		0	22
7/23/2014	84	97		15	7
7/24/2014	68	81		20	3
7/25/2014	58	71		18	4
7/26/2014	57	70		18	0
7/27/2014	54	67		18	0
7/28/2014	58	71		18	0
7/29/2014	58	71		18	0
7/30/2014	59	72		18	0
7/31/2014	60	73		18	0

Total

570

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CONSERVATION DIVISION
WICHITA, KS

W2738

Zweygardt 44-24

St. Francis

St. Francis

Flow

August-14

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	59	72		18	0
8/2/2014	58	71		18	0
8/3/2014	58	71		18	0
8/4/2014	58	71		17	0
8/5/2014	59	72		17	0
8/6/2014	60	73		17	0
8/7/2014	61	74		17	0
8/8/2014	61	74		16	0
8/9/2014	62	75		16	0
8/10/2014	63	76		16	0
8/11/2014	70	83		16	0
8/12/2014	58	71		16	0
8/13/2014	59	72		16	0
8/14/2014	58	71		16	0
8/15/2014	64	77		16	3
8/16/2014	62	75		16	0
8/17/2014	63	78		16	0
8/18/2014	62	75		16	0
8/19/2014	70	83		16	2
8/20/2014	61	74		16	0
8/21/2014	60	73		16	0
8/22/2014	65	78		16	0
8/23/2014	57	70		16	0
8/24/2014	59	72		16	0
8/25/2014	75	88		16	0
8/26/2014	60	73		16	0
8/27/2014	61	74		16	0
8/28/2014	115	128		16	0
8/29/2014	57	70		16	5
8/30/2014	56	69		16	0
8/31/2014	68	81		16	0

Total

506

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WICHITA, KS