

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow *MS*
 Deliverability

Test Date:
6/9/2013

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"/> flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1550'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-8 20 13 at 5:35 (AM) (PM) Taken 6-9 20 13 at 5:50 (AM) (PM)		Well on Line: Started 6-9 20 13 at 5:50 (AM) (PM) Taken 6-10 20 13 at 6:20 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						187	201.4				
Flow						57	71.4			24	

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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m
						17		

(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 (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 21 day of November, 2013.

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Witness (if any) _____ **DEC 26 2013** *Garrett Martiney* For Company

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: 11/21/13

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CONSERVATION DIVISION
WICHITA, KS

Signature: *Jannell Mattney*

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
 Zweygart 44-24
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	52	65		18	
6/2/2013	56	69		17	
6/3/2013	54	67		17	
6/4/2013	52	65		17	
6/5/2013	58	71		17	
6/6/2013	65	78		17	
6/7/2013	61	74		17	
6/8/2013	56	69		17	si for state test - cp 58
6/9/2013	61	74		0	24 reopened - cp 187
6/10/2013	91	104		24	2
6/11/2013	79	92		19	1
6/12/2013	78	91		19	
6/13/2013	60	73		19	
6/14/2013	61	74		19	
6/15/2013	65	78		17	
6/16/2013	67	80		17	
6/17/2013	62	75		17	
6/18/2013	58	71		18	
6/19/2013	54	67		18	
6/20/2013	59	72		18	
6/21/2013	65	78		18	
6/22/2013	81	94		18	
6/23/2013	83	96		18	
6/24/2013	80	93		18	
6/25/2013	85	98		18	
6/26/2013	82	95		18	
6/27/2013	69	82		18	
6/28/2013	58	71		18	
6/29/2013	57	70		18	
6/30/2013	57	70		17	
7/1/2013					

Total

521

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 WICHITA, KS

W2738
 Zweygardt 44-24
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	59	72		18	
7/2/2013	61	74		18	
7/3/2013	59	72		18	
7/4/2013	61	74		18	
7/5/2013	61	74		18	
7/6/2013	63	76		18	
7/7/2013	72	85		18	
7/8/2013	70	83		17	
7/9/2013	69	82		17	
7/10/2013	66	79		17	
7/11/2013	69	82		17	
7/12/2013	75	88		17	
7/13/2013	81	94		17	2.5
7/14/2013	80	93		17	
7/15/2013	61	74		17	
7/16/2013	58	71		17	
7/17/2013	55	68		16	
7/18/2013	84	97		15	
7/19/2013	75	88		15	
7/20/2013	77	90		15	
7/21/2013	78	91		15	
7/22/2013	74	87		15	
7/23/2013	71	85		15	
7/24/2013	78	91		15	
7/25/2013	81	94		15	
7/26/2013	70	83		15	
7/27/2013	60	73		15	
7/28/2013	62	75		15	
7/29/2013	60	73		15	
7/30/2013	61	74		15	3.5
7/31/2013	117	130		13	5.5

Total

503

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CONSERVATION DIVISION
 WICHITA, KS

W2738

Zweygart 44-24

St. Francis

St. Francis

Flow

August-13

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2013	81	94		17	
8/2/2013	80	93		15	
8/3/2013	76	89		15	
8/4/2013	78	91		15	
8/5/2013	69	82		15	
8/6/2013	59	72		15	
8/7/2013	55	68		15	
8/8/2013	59	72		15	
8/9/2013	62	75		15	
8/10/2013	60	73		15	
8/11/2013	58	71		15	
8/12/2013	58	71		15	
8/13/2013	57	70		15	
8/14/2013	58	71		15	
8/15/2013	59	72		15	0.5
8/16/2013	68	81		15	
8/17/2013	69	82		15	
8/18/2013	69	82		15	
8/19/2013	70	83		15	1.5
8/20/2013	92	105		15	1
8/21/2013	88	101		15	
8/22/2013	92	105		15	5
8/23/2013	77	90		15	
8/24/2013	86	99		15	1
8/25/2013	91	104		15	1
8/26/2013	61	74		15	
8/27/2013	56	69		15	
8/28/2013	55	68		15	
8/29/2013	96	109		15	1
8/30/2013	88	101		15	
8/31/2013	89	102		15	

Total

467

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