

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **AST**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
8/17/2012

API No. 15  
023-21270-0000

Company Rosewood Resources, Inc.		Lease Zweygart		Well Number 42-24	
County Cheyenne	Location SENE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/3/2010		Plug Back Total Depth 1376'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1413'	Perforations 1184'	To 1214'
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 type="checkbox"/> No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1425'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-16 20 12 at 5:55 (AM) (PM) Taken 8-17 20 12 at 6:10 (AM) (PM)		Well on Line: Started 8-17 20 12 at 6:10 (AM) (PM) Taken 8-18 20 12 at 6:30 (AM) (PM)			

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### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						192	206.4				
Flow						78	92.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>c</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>dv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						14		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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 19 day of December, 20 12

Witness (if any)

*Arnold Gevel*  
For Company

For Commission

Checked by

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Form G-2  
(Rev. 7/03)

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## KCC WICHITA

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 Zweygartd 42-24 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: 12/19/12

Signature: Jannell Geiwel

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.

W2745

Zweygardt 42-24

St. Francis

St. Francis

Flow

August-12

FloBoss

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DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2012		76	89	14				
8/2/2012		69	82	14				
8/3/2012		71	84	14				
8/4/2012		68	81	14				
8/5/2012		77	90	14				
8/6/2012		69	82	14				
8/7/2012		71	84	14				
8/8/2012		70	83	14				
8/9/2012		69	82	14				
8/10/2012		84	97	14				
8/11/2012		71	84	13		1.5		
8/12/2012		71	84	13				
8/13/2012		66	79	14				
8/14/2012		69	82	14				
8/15/2012		78	91	14				
8/16/2012		67	80	14				si for state test cp-74
8/17/2012		192	65	0		24		reopened cp-192
8/18/2012		78	91	20				
8/19/2012		74	87	15				
8/20/2012		68	81	15				
8/21/2012		71	84	14				
8/22/2012		68	81	14				
8/23/2012		72	85	14				
8/24/2012		69	82	13				
8/25/2012		72	85	13				
8/26/2012		64	77	13				
8/27/2012		68	81	13				
8/28/2012		69	82	13				
8/29/2012		70	83	13				
8/30/2012		68	81	13				
8/31/2012		69	82	13				

Total

418

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Zweygardt 42-24

St. Francis

St. Francis

Flow

September-12

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2012	70	83		13	
9/2/2012	71	84		13	
9/3/2012	68	81		13	
9/4/2012	68	81		13	1
9/5/2012	82	95		13	
9/6/2012	82	95		13	
9/7/2012	162	175		5	19
9/8/2012	171	184		7	24
9/9/2012	178	191		0	24
9/10/2012	182	195		0	24
9/11/2012	183	196		0	24
9/12/2012	184	197		0	24
9/13/2012	132	145		20	10
9/14/2012	116	129		23	
9/15/2012	105	118		18	
9/16/2012	99	112		16	
9/17/2012	90	103		16	
9/18/2012	74	87		15	
9/19/2012	86	99		15	
9/20/2012	67	80		15	
9/21/2012	66	79		14	
9/22/2012	65	78		14	
9/23/2012	65	78		14	
9/24/2012	69	82		14	
9/25/2012	70	83		14	
9/26/2012	70	83		14	
9/27/2012	77	90		13	
9/28/2012	70	83		13	
9/29/2012	71	84		13	
9/30/2012	71	84		13	
10/1/2012					

Total

364

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Zweygartdt 42-24

St. Francis

St. Francis

Flow

October-12

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
10/1/2012	70	83		13	
10/2/2012	69	82		13	
10/3/2012	71	84		13	
10/4/2012	68	81		13	
10/5/2012	67	80		13	
10/6/2012	68	81		13	
10/7/2012	68	81		13	
10/8/2012	67	80		13	
10/9/2012	68	81		13	
10/10/2012	71	84		13	
10/11/2012	68	81		13	
10/12/2012	68	81		13	
10/13/2012	64	77		14	
10/14/2012	72	85		13	
10/15/2012	69	82		13	
10/16/2012	86	99		13	1
10/17/2012	69	82		13	
10/18/2012	67	80		13	
10/19/2012	67	80		13	
10/20/2012	69	82		13	
10/21/2012	67	80		12	
10/22/2012	69	82		12	
10/23/2012	67	80		12	
10/24/2012	66	79		12	
10/25/2012	64	77		12	
10/26/2012	66	79		12	
10/27/2012	66	79		12	
10/28/2012	65	78		12	
10/29/2012	90	103		12	2
10/30/2012	79	92		12	
10/31/2012	64	77		12	

Total

393