

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **RFI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/25/2012

API No. 15  
023-20790-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 24-12	
County Cheyenne	Location SESW	Section 12	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 8/3/2007		Plug Back Total Depth		Packer Set at	
Casing Size 7"	Weight 23#	Internal Diameter 6.366	Set at 1338'	Perforations none	To none
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="radio"/> No <input checked="" type="radio"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1393'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
Pressure Buildup: Shut in 7-24		20 12 at 9:00		(AM) (PM) Taken 7-25	
Well on Line: Started 7-25		20 12 at 9:15		(AM) (PM) Taken 7-26	

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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						225	239.4				
Flow						57	71.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						13		

### (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>g</sub>)<sup>2</sup> = 0.207  
(P<sub>g</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</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>g</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: $\frac{P_c^2 - P_g^2}{P_c^2 - P_w^2}$	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 the 19 day of December, 20 12.

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Company

\_\_\_\_\_  
For Commission

\_\_\_\_\_  
Checked by

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Form G-2  
(Rev. 7/03)

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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 24-12 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:   
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.

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Zweygardt 24-12

St. Francis

St. Francis

Flow

July-12

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DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2012	68	81		13		
7/2/2012	56	70		13	3	
7/3/2012	76	89		12		
7/4/2012	56	69		14		
7/5/2012	55	68		13		
7/6/2012	59	72		13	1	
7/7/2012	54	67		14		
7/8/2012	60	73		14		
7/9/2012	62	75		14		
7/10/2012	61	74		14		
7/11/2012	58	72		13		
7/12/2012	58	72		13		
7/13/2012	58	71		13		
7/14/2012	58	71		13		
7/15/2012	58	71		13		
7/16/2012	69	82		12	1.5	
7/17/2012	59	72		14		
7/18/2012	55	68		13		
7/19/2012	61	74		13	0.5	
7/20/2012	62	75		13		
7/21/2012	65	78		13		
7/22/2012	59	72		13		
7/23/2012	58	71		13	0.5	
7/24/2012	64	77		12		cp 65 si for state test
7/25/2012	225	77		0	24	cp 225 opened
7/26/2012	57	70		20		
7/27/2012	74	87		11	5	
7/28/2012	67	80		12		
7/29/2012	58	71		14		
7/30/2012	55	68		14		
7/31/2012	55	68		13		

Total

399

4

W2447  
 Zwegardt 24-12  
 St. Francis  
 St. Francis  
 Flow  
 August-12

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DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012	56	69		13		
8/2/2012	58	71		13		
8/3/2012	58	71		13		
8/4/2012	57	70		13		
8/5/2012	59	72		13		
8/6/2012	56	69		13		
8/7/2012	61	74		13		
8/8/2012	60	73		13		
8/9/2012	59	72		13		
8/10/2012	60	73		13	1.5	
8/11/2012	60	73		12		
8/12/2012	61	74		13		
8/13/2012	55	68		13		
8/14/2012	54	67		13		
8/15/2012	55	68		13		
8/16/2012	56	69		13		
8/17/2012	53	66		13		
8/18/2012	54	67		13		
8/19/2012	55	68		13		
8/20/2012	55	68		13		
8/21/2012	61	74		13		
8/22/2012	54	67		13		
8/23/2012	55	68		13		
8/24/2012	59	72		13		
8/25/2012	63	76		12		
8/26/2012	61	74		13		
8/27/2012	61	74		13		
8/28/2012	56	69		13		
8/29/2012	58	71		13		
8/30/2012	58	71		13		
8/31/2012	57	70		13		

Total

401

0

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Zweygardt 24-12

St. Francis

St. Francis

Flow

September-12

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2012	57	70		13		
9/2/2012	57	70		13		
9/3/2012	57	70		13		
9/4/2012	57	70		13	1	
9/5/2012	73	86		12		
9/6/2012	56	69		13		
9/7/2012	156	169		5	19	
9/8/2012	171	184		9	24	
9/9/2012	177	190		0	24	
9/10/2012	176	189		0	24	
9/11/2012	183	196		0	24	
9/12/2012	184	197		0	24	
9/13/2012	112	125		13	10	
9/14/2012	101	114		15		
9/15/2012	93	106		14		
9/16/2012	92	105		14		
9/17/2012	80	93		14		
9/18/2012	61	74		15		
9/19/2012	80	93		13		
9/20/2012	52	65		15		
9/21/2012	53	66		14		
9/22/2012	53	66		14		
9/23/2012	53	66		13		
9/24/2012	58	71		13		
9/25/2012	60	73		13		
9/26/2012	60	73		13		
9/27/2012	69	82		12		
9/28/2012	60	73		13		
9/29/2012	60	73		13		
9/30/2012	60	73		13		
10/1/2012						

Total

335

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