

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow **RFI**  
 Deliverability

Test Date:  
8/18/2012

API No. 15  
023-21250-0000

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 24-24	
County Cheyenne	Location SESW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 10/2/2010		Plug Back Total Depth 1485'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1523'	Perforations 1346'	To 1376'
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	Gas Gravity - G <sub>g</sub> .6	
Vertical Depth(H) 1535'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-17 20 12 at 6:15 (AM) (PM) Taken 8-18 20 12 at 6:25 (AM) (PM)					
Well on Line: Started 8-18 20 12 at 6:25 (AM) (PM) Taken 8-19 20 12 at 6:45 (AM) (PM)					

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### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						190	204.4				
Flow						66	80.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</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>
						14		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(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)  
  
\_\_\_\_\_  
For Commission

*Jamill Gevel*  
\_\_\_\_\_  
For Company

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

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Form G-2  
(Rev. 7/03)

JAN 03 2013

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 Zimbelman 24-24 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:   
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.

W2735

Zimbelman 24-24

St. Francis

St. Francis

Flow

August-12

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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		68	81	15					
8/2/2012		61	74	15					
8/3/2012		61	74	15					
8/4/2012		59	72	15					
8/5/2012		69	82	15					
8/6/2012		60	73	15					
8/7/2012		70	83	15					
8/8/2012		63	76	15					
8/9/2012		76	89	15					
8/10/2012		62	75	14			1.5		
8/11/2012		62	75	14					
8/12/2012		62	75	14					
8/13/2012		58	71	15					
8/14/2012		61	74	15					
8/15/2012		70	83	15					
8/16/2012		61	74	15					
8/17/2012		57	70	14					si for state test cp-66
8/18/2012		190	150	0			24		reopened cp-190
8/19/2012		66	79	21					
8/20/2012		58	71	16					
8/21/2012		67	80	16					
8/22/2012		62	75	15					
8/23/2012		67	80	15					
8/24/2012		66	79	15					
8/25/2012		65	78	14					
8/26/2012		66	79	14					
8/27/2012		66	79	14					
8/28/2012		60	73	14					
8/29/2012		62	75	14					
8/30/2012		61	74	14					
8/31/2012		61	74	14					

Total

447

0

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Zimbelman 24-24

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Flow

September-12

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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2012	61	74		14	
9/2/2012	64	77		14	
9/3/2012	61	74		14	
9/4/2012	60	73		14	1
9/5/2012	77	90		14	
9/6/2012	77	90		14	
9/7/2012	149	162		5	19
9/8/2012	170	183		1	24
9/9/2012	176	189		0	24
9/10/2012	181	194		0	24
9/11/2012	182	195		0	24
9/12/2012	184	197		0	24
9/13/2012	114	127		22	10
9/14/2012	105	118		21	
9/15/2012	97	110		18	
9/16/2012	91	104		17	
9/17/2012	82	95		17	
9/18/2012	65	78		17	
9/19/2012	79	92		15	
9/20/2012	57	70		15	
9/21/2012	57	70		15	
9/22/2012	57	70		15	
9/23/2012	57	70		15	
9/24/2012	59	72		15	
9/25/2012	64	77		15	
9/26/2012	64	77		15	
9/27/2012	71	84		14	
9/28/2012	64	77		14	
9/29/2012	64	77		14	
9/30/2012	64	77		14	
10/1/2012					

Total

378

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Zimbelman 24-24

St. Francis

St. Francis

Flow

October-12

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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
10/1/2012	64	77		14	
10/2/2012	63	76		14	
10/3/2012	64	77		14	
10/4/2012	62	75		14	
10/5/2012	62	75		14	
10/6/2012	62	75		14	
10/7/2012	62	75		14	
10/8/2012	63	76		14	
10/9/2012	63	76		14	
10/10/2012	64	77		14	
10/11/2012	63	76		14	
10/12/2012	62	75		14	
10/13/2012	64	77		14	
10/14/2012	65	78		14	
10/15/2012	63	76		14	
10/16/2012	82	95		14	1
10/17/2012	65	78		14	
10/18/2012	61	74		13	
10/19/2012	61	74		13	
10/20/2012	64	77		13	
10/21/2012	63	76		13	
10/22/2012	63	76		13	
10/23/2012	61	74		13	
10/24/2012	61	74		13	
10/25/2012	58	71		13	
10/26/2012	61	74		13	
10/27/2012	59	72		13	
10/28/2012	59	72		13	
10/29/2012	85	98		13	2
10/30/2012	74	87		13	
10/31/2012	62	75		13	

Total

420