

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

(See Instructions on Reverse Side)

Type Test:

- Open Flow  SI  
 Deliverability

Test Date:  
5/21/2008

API No. 15  
023-20562-00-00

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 2-24	
County Cheyenne	Location SWSW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9-10-2004		Plug Back Total Depth 1536'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1536'	Perforations 1332'	To 1370'
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 flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1370'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-21 20 08 at 8:35		(AM) (PM) Taken 5-22 20 08 at 10:35		(AM) (PM)	
Well on Line: Started 5-22 20 08 at 10:35		(AM) (PM) Taken 5-23 20 08 at 9:45		(AM) (PM)	

### 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>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						60	74.4				
Flow						240	254.4			24	0

### 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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						59		

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

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</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>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>w</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	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 12 day of December, 20 08

Witness (if any) \_\_\_\_\_ For Company *Wayne Martin*  
For Commission \_\_\_\_\_ Checked by \_\_\_\_\_

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**JAN 29 2009**

CONSERVATION DIVISION  
WICHITA, KS

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**SEP 18 2009**

**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 2-24 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: 12/12/08

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Signature: *Wayne Inabon*  
Title: Production Foreman

**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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W381  
 Zimbelman 02-24  
 St. Francis  
 St. Francis  
 None  
 May-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2008		104		13	0
5/2/2008	90	106		13	0
5/3/2008		106		13	0
5/4/2008		104		13	0
5/5/2008		106		13	0
5/6/2008		104		13	0
5/7/2008		106		13	0
5/8/2008	90	103		13	0
5/9/2008		103		13	0
5/10/2008		103		13	0
5/11/2008		103		13	0
5/12/2008		103		13	0
5/13/2008		102		13	0
5/14/2008		103		13	0
5/15/2008	90	105		13	0
5/16/2008		103		13	0
5/17/2008		220		29	0
5/18/2008		210		31	0
5/19/2008		68		27	0
5/20/2008		69		17	0
5/21/2008		65		19	0
5/22/2008	60	66		18	0 shut in for test
5/23/2008	240	67		5	0 open
5/24/2008		80		21	0
5/25/2008		67		18	0
5/26/2008		67		18	0
5/27/2008		73		16	0
5/28/2008		71		16	0
5/29/2008		77		16	0
5/30/2008		73		16	0
5/31/2008		73		15	0

Total 490

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W381  
 Zimbelman 02-24  
 St. Francis  
 St. Francis  
 None  
 June-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2008		73		15	0
6/2/2008		72		15	0
6/3/2008		72		15	0
6/4/2008		70		15	0
6/5/2008		69		15	0
6/6/2008		68		15	0
6/7/2008		72		21	0
6/8/2008		73		30	0 bucket test 4 min 43bbls 6.5 strokes 24 hrs on
6/9/2008		74		35	0 bucket test 4 min 43bbls 6.5 strokes 24 hrs on
6/10/2008		78		39	0
6/11/2008		82		42	0 bucket test 4 min 43 bbl 6.5 strokes 24 hrs on
6/12/2008		81		45	43
6/13/2008		83		47	44 bucket test 4 min 43 bbl 6.5 / 24
6/14/2008		84		49	0
6/15/2008		87		51	0 bucket test 4 min 43 bbs 6.5/24
6/16/2008		82		52	0
6/17/2008		84		53	0 bucket test 4 min 43 bbls 6.5 / 24
6/18/2008		81		55	0 bucket test 4 min 43 bbls 6.5 / 24
6/19/2008		82		56	0 bucket test 4 min 43 bbls 6.5 / 24
6/20/2008		82		58	0 bucket test 4 min 43 bbls 6.5 / 24
6/21/2008		82		59	0 bucket test 4 min 43 bbls 6.5 / 24
6/22/2008		82		59	0
6/23/2008		84		60	0 bucket test 4 min 43 bbls 6.5 / 24
6/24/2008		82		60	0
6/25/2008		87		60	0 bucket test 4 min 43 bbls 6.5 / 24
6/26/2008		87		60	0
6/27/2008		82		60	0 bucket test 4 min 43 bbls 6.5/24
6/28/2008		80		59	0
6/29/2008		80		59	0 bucket test 4.5 min 31 bbls 6.5/24
6/30/2008		80		59	0
7/1/2008					0

Total 1318

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W381  
 Zimbelman 02-24  
 St. Francis  
 St. Francis  
 None  
 July-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2008		81		58	0
7/2/2008		85		59	0 bucket test 4 min 6.5/24 43 bbls greased
7/3/2008		81		61	0
7/4/2008		81		61	0 bucket test 4 min 43 bbls
7/5/2008		90		61	0
7/6/2008		91		62	0 bucket test 4 min 43 bbls
7/7/2008		90		63	0 43
7/8/2008		86		62	0 bucket test 4 min 43
7/9/2008		83		60	0 bucket test 4 min 43
7/10/2008		84		60	0 43
7/11/2008		91		62	0 43
7/12/2008		83		62	0 4 min water test 43
7/13/2008		81		62	0 43
7/14/2008		176		59	11 PU off HFP
7/15/2008		124		24	0
7/16/2008		99		70	0 pu off hfp
7/17/2008		84		54	0 pu off hfp
7/18/2008		103		48	0 pu off hfp
7/19/2008		67		43	3 started pumping unit
7/20/2008		71		40	0 43
7/21/2008		71		38	0 43
7/22/2008		81		43	0 bucket test 4 min 6.5/24 43
7/23/2008		89		52	0 43
7/24/2008		104		58	0 43
7/25/2008		92		59	0 43
7/26/2008		76		60	0 43
7/27/2008		73		56	0 43
7/28/2008		82		56	0 5 min water test 6.5 / 24 28
7/29/2008		74		59	0
7/30/2008		140		57	0 pump off hfp 24
7/31/2008		76		43	5 started pumping unit up 0

Total 1712

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