

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

Type Test:

- Open Flow  
 Deliverability

24 hr SI

(See Instructions on Reverse Side)

Test Date:  
12-8-2005

API No. 15  
023-20565-00-∞

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 1-24	
County Cheyenne	Location SWNE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 7-10-2004		Plug Back Total Depth 1368'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1411'	Perforations 1216'	To 1254'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Vertical)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes / No flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1254'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
Pressure Buildup: Shut in 11-30 20 05 at 3:30 (AM) (PM) Taken 12-1 20 05 at 4:00 (AM) (PM)		Well on Line: Started 12-1 20 05 at 4:00 (AM) (PM) Taken 12-8 20 05 at 2:00 (AM) (PM)			

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure (Pm) psig	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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						145	159.6				
Flow						105	119.6				

### 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	Grav G <sub>m</sub>
						97		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

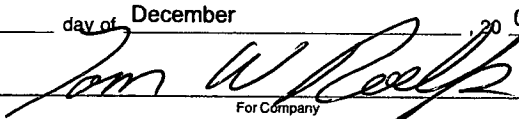
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>g</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207 : (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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 27 day of December, 2005.

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

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

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

\_\_\_\_\_  
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.

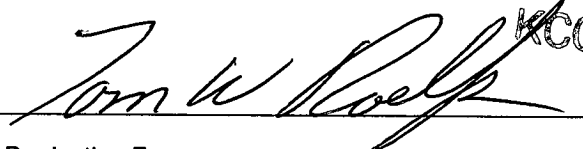
I hereby request a one-year exemption from open flow testing for the Zweygardt 1-24 gas well on the grounds that said well:

(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: 12-27-2005

Signature:   
Title: Production Foreman

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**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.

Monthly Gauge Sheet

Well Name: Zwuygardt 1-24

Pumper: \_\_\_\_\_

Month 12/05

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1			36			145		Shot in @ 120
2			36			118		Opened @ 4PM @ 145 PSI
3	120		98			107		
4			98			110		
5	122		97			109		
6	115		97			102		
7	115		93			102		
8	118		97			105		
9	120		95			107		
10	118		95			105		
11	120		93			107		
12	120		93			107		
13	107		98			94		
14	116		95			103		
15	118		97			105		
16	122		92			109		
17	117		94			104		
18	117		96			104		
19	130		109			<del>117</del> 117		COP O Range
20	89		141			76		
21	73		108			60		
22	71		89			58		
23	71		96			58		
24	68		94			55		
25	68		94			55		
26	60		97			57		
27	71		96			58		
28								
29								
30								
31								
Totals								

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Monthly Gauge Sheet

Well Name: Zweygardt 1-24

Month: 11/05

Date	MCF	TP	CP	Wtr	Remarks
1	96		118		
2	95		118		
3	95		117		
4	95		117		
5	96		118		
6	94		120		
7	95		118		
8	94		138		CD <i>bls</i>
9	60		118		
10	95		117		
11	96		119		
12	95		118		
13	96		115		
14	94		116		
15	95		116		
16	95		115		
17	93		115		
18	93		115		
19	93		112		
20	93		116		
21	93		114		
22	93		114		
23	93		116		
24	92		113		
25	92		113		
26	92		109		
27	92		112		CD
28	88		119		CD
29	80		138		
30	88		119		shut in 4:07 PM 120 PSI
31					

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Monthly Gauge Sheet

Well Name: Zweygardt 1-24

Month: 10/05

Date	MCF	TP	CP	Wtr	Remarks
1	101		134		
2	99		130		
3	99		132		
4	99		135		
5	100		130		
6	100		132		
7	<del>99</del>		134		
8	99		135		
9	101		134		
10	82		152		
11	79		148		
12	85		142		
13	87		132		
14	89		134		
15	94		130		
16	96		128		
17	99		122		
18	98		121		
19	97		130		
20	97		130		
21	96		128		
22	98		128		
23	97		130		
24	98		134		
25	97		124		
26	97		119		
27	68		119		
28	74		114		
29	89		116		
30	94		118		
31	96		118		

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