

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/18/2007

API No. 15  
023-20629-00 - ∞

Company Rosewood Resources, Inc.		Lease R. Walter		Well Number 21-21	
County Cheyenne	Location NENW/4	Section 21	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/22/2005		Plug Back Total Depth 1518'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1518'	Perforations 1371'	To 1403'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / <input checked="" type="checkbox"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1403'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7/18 20 07 at 11:10 (AM) (PM) Taken 7/19 20 07 at 1:55 (AM) (PM)		Well on Line: Started 7/19 20 07 at 1:55 (AM) (PM) Taken 7/20 20 07 at 12:10 (AM) (PM)			

### 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>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						230	244.4				
Flow						225	239.4			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>
						37		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 0.207  
(P<sub>o</sub>)<sup>2</sup> = \_\_\_\_\_

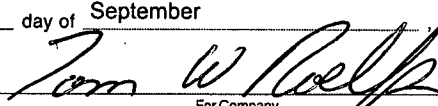
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>o</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>o</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>o</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: $P_c^2 - P_w^2$	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 25 day of September 2007

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

  
For Company

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CONSERVATION DIVISION

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.

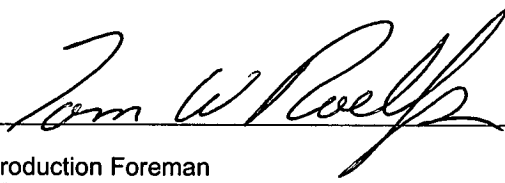
I hereby request a one-year exemption from open flow testing for the R. Walter 21-21 gas well on the grounds that said well:

(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: 9/25/2007

Signature:   
 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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R Walter 21-21

St. Francis

St. Francis

None

July-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2007		165	36	0	
7/2/2007		165	36	0	
7/3/2007	240	165	33	0	bp
7/4/2007		165	34	0	
7/5/2007		165	37	0	
7/6/2007		165	36	0	
7/7/2007		165	36	0	
7/8/2007		165	23	0	
7/9/2007		165	22	12	
7/10/2007		234	7	15	
7/11/2007		166	16	12	bp
7/12/2007		135	65	0	
7/13/2007		166	37	0	
7/14/2007		166	37	0	
7/15/2007		165	37	0	bp
7/16/2007		165	37	0	
7/17/2007		165	37	0	
7/18/2007	230	165	37	0	
7/19/2007		37	13	0	si 24 hr test cp - 225
7/20/2007		166	24	0	
7/21/2007		165	37	0	
7/22/2007		166	37	0	
7/23/2007		165	37	0	
7/24/2007		165	34	4	
7/25/2007		165	37	0	
7/26/2007		165	37	0	
7/27/2007		165	36	0	
7/28/2007		165	36	0	
7/29/2007		165	36	0	
7/30/2007		165	37	0	bp
7/31/2007		166	37	0	

Total

1041

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R Walter 21-21

St. Francis

St. Francis

None

August-07

DATE	Casing		HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		DOWN	
8/1/2007		165	37	0	
8/2/2007		166	37	0	
8/3/2007		166	37	0	
8/4/2007		165	37	0	
8/5/2007		165	37	0	
8/6/2007		166	37	0	
8/7/2007		165	37	0	
8/8/2007		164	37	0	
8/9/2007		166	37	12	
8/10/2007		165	17	0	
8/11/2007		165	34	0	
8/12/2007		166	36	0	
8/13/2007		165	37	0	
8/14/2007		165	37	0	0 bp
8/15/2007	230	165	36	0	
8/16/2007		165	36	0	
8/17/2007		165	37	0	
8/18/2007		165	37	0	
8/19/2007		165	37	0	0 bp-
8/20/2007		165	37	0	
8/21/2007		165	37	0	
8/22/2007	220	165	37	0	
8/23/2007		165	37	0	
8/24/2007		165	37	0	
8/25/2007		165	37	0	
8/26/2007		165	37	0	
8/27/2007		164	37	0	0 bp
8/28/2007		165	37	0	
8/29/2007		165	37	0	
8/30/2007		165	37	0	
8/31/2007		165	37	0	

Total

1121

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R Walter 21-21

St. Francis

St. Francis

None

September-07

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2007		164		37	0
9/2/2007		164		37	0
9/3/2007		164		37	0
9/4/2007		164		37	0
9/5/2007		164		31	7
9/6/2007		164		31	0
9/7/2007		131		30	3
9/8/2007		163		33	0
9/9/2007		166		37	0 bp
9/10/2007		166		37	0
9/11/2007		165		37	0
9/12/2007		164		37	0
9/13/2007		165		37	0
9/14/2007		165		37	0
9/15/2007		166		37	0
9/16/2007		166		37	0
9/17/2007		166		37	0
9/18/2007		164		37	0
9/19/2007		164		37	0
9/20/2007		164		40	0
9/21/2007	220	165		37	0
9/22/2007		164		37	0
9/23/2007		165		37	0
9/24/2007		165		37	0 bp
9/25/2007		165		37	0
9/26/2007		165		37	0
9/27/2007		165		37	0
9/28/2007	220	165		37	0
9/29/2007		165		37	0
9/30/2007		165		37	0
10/1/2007					0

Total

1090

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