

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

Type Test:

Open Flow  **SI**  
 Deliverability

Test Date:  
7/17/2007

API No. 15  
15-023-20-111-00-00

Company Rosewood Resources, Inc.		Lease R. Walter		Well Number #5	
County Cheyenne	Location NESW	Section 9	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7/18/1980		Plug Back Total Depth 1505'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1470'	Perforations 1454'	To 1468'
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) 1402'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7/17 20 07 at 11:20 (AM) (PM) Taken 7/18 20 07 at 2:00 (AM) (PM)					
Well on Line: Started 7/18 20 07 at 2:00 (AM) (PM) Taken 7/19 20 07 at 12:20 (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						80	94.4				
Flow						35	49.4				

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						28		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

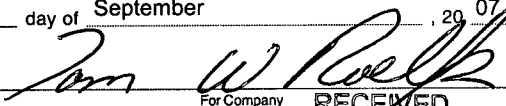
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

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  
**RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
 Checked by

NOV 02 2007

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.

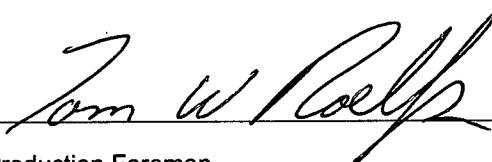
I hereby request a one-year exemption from open flow testing for the R. Walter 32-21 gas well on the grounds that said well:

(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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CONSERVATION DIVISION  
WICHITA KS

W377

Walter #5

St. Francis

St. Francis

Pumping Unit/Elec

July-07

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS Maximum length 110 characters
	PSI	PSI							
7/1/2007			39	28	6.5/4	0	3		
7/2/2007			39	28		0	3	16 min water test	
7/3/2007			39	20		0	1	bp	
7/4/2007			39	28		0	2		
7/5/2007		35	38	29		0	3		
7/6/2007			38	28		0	2		
7/7/2007			38	28		0	2		
7/8/2007			38	28		0	3		
7/9/2007			86	13		12	2		
7/10/2007			90	0		15	3		
7/11/2007			91	0		12	3	bp	
7/12/2007			68	11		0	4		
7/13/2007			42	38		0	3		
7/14/2007			40	30		0	3		
7/15/2007			39	31		0	4	bp	
7/16/2007			40	30		0	3		
7/17/2007		35	41	30	6.5 / 4	0	6	4.5 min water test greased	
7/18/2007			38	10		0	0	si 24 hr test cp - 80	
7/19/2007			35	27		0	4		
7/20/2007			40	32		0	4		
7/21/2007			41	31		0	6		
7/22/2007			41	31		0	5		
7/23/2007			40	31		0	4		
7/24/2007			41	17	6.5/2	0	4	4 min water test	
7/25/2007			41	31		0	3		
7/26/2007			41	29		0	5		
7/27/2007			40	29		0	3		
7/28/2007			39	22		0	3		
7/29/2007			42	30		0	5		
7/30/2007			39	28		0	4	bp	
7/31/2007			40	28	6.5 / 2	0	4	4 min water test	

Total

776

104

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WICHITA, KS

W377  
 Walter #5  
 St. Francis  
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 Pumping Unit/Elec  
 August-07

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
8/1/2007			40	28	6.5	2	0	4	
8/2/2007			40	28	6.5	2	0	4	
8/3/2007			40	28	6.5	2	0	4	
8/4/2007			43	28	6.5	2	0	3	
8/5/2007			43	28	6.5	2	0	2	
8/6/2007			43	28	6.5	2	0	4	
8/7/2007			45	28	6.5	2	0	4	bp
8/8/2007			49	28	6.5	2	0	5	3 min water test
8/9/2007			83	27	6.5	2	12	3	
8/10/2007			93	2	6.5	2	0	4	
8/11/2007			97	0	6.5	2	0	2	
8/12/2007			75	8	6.5	2	0	2	
8/13/2007			69	20	6.5	2	0	2	
8/14/2007			85	23	6.5	2	0	6	bp
8/15/2007			87	17	0	0	0	0	pump off
8/16/2007			52	25	0	0	0	0	pump off
8/17/2007			45	31	0	0	0	0	pump off
8/18/2007			46	29	0	0	0	0	pump off
8/19/2007			46	27	0	0	0	0	pump off bp
8/20/2007			46	27	0	0	0	0	pump off bad check valve
8/21/2007			46	26	0	0	0	0	pump off bad check valve
8/22/2007			45	25	0	0	0	0	pump off bad check valve
8/23/2007			45	25	6.5	2	0	4	pump on 4 min water test
8/24/2007			46	25	6.5	2	0	4	
8/25/2007			49	26	6.5	2	0	4	
8/26/2007			47	25	6.5	2	0	4	
8/27/2007			55	26	6.5	2	0	4	bp
8/28/2007			55	26	6.5	2	0	3	
8/29/2007			69	21	6.5	2	0	2	
8/30/2007			69	21	6.5	2	0	4	
8/31/2007			67	21	6.5	2	0	3	

Total

727

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Pumping Unit/Elec

September-07

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)		
	PSI	PSI							
9/1/2007			60	25	6.5	2	0	4	
9/2/2007			63	18	6.5	2	0	3	
9/3/2007			56	23	6.5	2	0	2	
9/4/2007			49	24	6.5	2	0	3	
9/5/2007			94	18	0	0	7	0	pump off hfp
9/6/2007			93	1	0	0	0	0	
9/7/2007			95	6	0	0	3	0	
9/8/2007			64	24	0	0	0	0	
9/9/2007			43	26	0	0	0	0	bp restart pump
9/10/2007			44	26	6.5	2	0	3	
9/11/2007			45	25	6.5	2	0	3	
9/12/2007			47	25	6.5	2	0	4	
9/13/2007			56	25	6.5	2	0	3	
9/14/2007			60	25	6.5	2	0	2	
9/15/2007			69	23	6.5	2	0	4	
9/16/2007			74	23	6.5	2	0	3	
9/17/2007			79	23	6.5	2	0	2	
9/18/2007			60	23	0	0	0	0	si
9/19/2007			99	7	0	0	0	0	si
9/20/2007			102	0	0	0	0	0	si
9/21/2007		60	66	0	0	0	0	0	opened @ 2:30 pm
9/22/2007			80	25	0	0	0	0	
9/23/2007			78	23	0	0	0	0	
9/24/2007			67	24	0	0	0	0	bp
9/25/2007			44	27	0	0	0	0	
9/26/2007			37	26	0	0	0	0	
9/27/2007			72	26	0	0	0	0	
9/28/2007			75	26	0	0	0	0	
9/29/2007			77	23	0	0	0	0	si
9/30/2007			101	3	0	0	0	0	si
10/1/2007									

Total

593

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