

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **BSS**  
 Deliverability

Test Date:  
7/29/2008

API No. 15  
15-023-20-111 **0000**

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 <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1402'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-29 20 08 at 10:35 (AM) (PM) Taken 7-30 20 08 at 12:00 (AM) (PM)		Well on Line: Started 7-30 20 08 at 12:00 (AM) (PM) Taken 7-31 20 08 at 11:40 (AM) (PM)			

### OBSERVED SURFACE DATA

Duration of Shut-in **24** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	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						102	116.4				

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>v</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>
						27		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$  :  $(P_w)^2 =$  :  $P_d =$  %  $(P_c - 14.4) + 14.4 =$  :  $(P_a)^2 = 0.207$   
 $(P_d)^2 =$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	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 11 day of December, 20 08

Witness (if any)

For Commission

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**JAN 29 2009**

CONSERVATION DIVISION  
WICHITA KS

*Wagner*  
For Company

Checked by

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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 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: 12/11/08

Signature: Wayne Inaba

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.

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W377  
 Walter #5  
 St. Francis  
 St. Francis  
 Pumping Unit/Elec  
 July-08

DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2008			51	27	6.5	6	0	10
7/2/2008			55	27	6.5	6	0	11
7/3/2008			50	25	6.5	6	0	10
7/4/2008			50	25	6.5	6	0	11
7/5/2008			65	25	6.5	6	0	12
7/6/2008			67	25	6.5	6	0	11 bucket test 4 min
7/7/2008			60	25	0	0	0	0 pump off checking for hole in pipe
7/8/2008			57	25	0	0	0	0 pump off checking for hole in pipe
7/9/2008			53	25	6.5	6	0	0 turned pump on no hole in pipe
7/10/2008			55	24	6.5	6	0	11
7/11/2008			56	25	6.5	6	0	12
7/12/2008			56	23	6.5	6	0	10
7/13/2008			55	24	6.5	6	0	11 bucket test 4 min
7/14/2008			89	24	6.5	6	11	10 PU off HFP
7/15/2008			97	2	0	0	0	0
7/16/2008			83	6	0	0	0	0 PU off HFP
7/17/2008			65	30	0	0	0	0
7/18/2008			93	29	0	0	0	0 PU off HFP
7/19/2008			46	21	6.5	6	3	0
7/20/2008			52	27	6.5	6	0	12
7/21/2008			52	27	6.5	6	0	11
7/22/2008			57	25	6.5	6	0	10
7/23/2008			63	25	6.5	6	0	12
7/24/2008			89	24	6.5	6	0	11 bucket test 4 min
7/25/2008			90	24	6.5	6	0	11
7/26/2008			51	30	6.5	6	0	12
7/27/2008			48	25	6.5	6	0	11
7/28/2008			59	26	6.5	6	0	12
7/29/2008			47	25	6.5	6	0	11
7/30/2008		60 102	89	27	0	0	0	12 shut in for test
7/31/2008			48	1	6.5	6	5	0 open

Total

723

244

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KCC WICHITA

W377  
 Walter #5  
 St. Francis  
 St. Francis  
 Pumping Unit/Elec  
 August-08

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2008			46	30	6.5	6	0	11
8/2/2008			46	28	6.5	6	0	10
8/3/2008			53	28	6.5	6	0	9
8/4/2008			53	27	6.5	6	0	10
8/5/2008			49	29	6.5	6	0	11
8/6/2008			56	29	6.5	6	0	10
8/7/2008			47	29	6.5	6	0	9
8/8/2008			53	29	6.5	6	0	10
8/9/2008			53	29	6.5	6	0	10
8/10/2008			53	29	6.5	6	0	10
8/11/2008			53	27	6.5	6	0	11
8/12/2008			56	28	6.5	6	0	9
8/13/2008			50	27	6.5	6	0	10
8/14/2008			51	27	6.5	6	0	11
8/15/2008			51	27	6.5	6	0	10
8/16/2008			50	27	6.5	6	0	11
8/17/2008			50	27	6.5	6	0	10
8/18/2008			55	26	6.5	6	0	9
8/19/2008			54	26	6.5	6	0	10
8/20/2008			56	25	6.5	6	0	11
8/21/2008			53	25	6.5	6	0	10
8/22/2008			69	24	6.5	6	0	10 pump off high pressure on water line
8/23/2008			68	24	0	0	0	0
8/24/2008			67	24	0	0	0	0
8/25/2008			70	24	0	0	0	0 pump on
8/26/2008			66	23	6.5	6	0	11
8/27/2008			70	23	6.5	6	0	11
8/28/2008			79	20	0	0	0	0 PUMP OFF HOLE IN TUBE
8/29/2008			66	23	0	0	0	0 PUMP OFF HOLE IN TUBE
8/30/2008			56	26	0	0	0	0 PUMP OFF HOLE IN TUBE
8/31/2008			50	24	0	0	0	0 PUMP OFF HOLE IN TUBE

Total

814

244

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 KCC WICHITA

W377  
 Walter #5  
 St. Francis  
 St. Francis  
 Pumping Unit/Elec  
 September-08

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
9/1/2008			48	23	0	0	0 pump off
9/2/2008			45	23	0	0	0 pump off
9/3/2008			44	22	0	0	0 pump off
9/4/2008			46	22	0	0	0 pump off
9/5/2008			45	22	0	0	0 pump off
9/6/2008			156	22	0	14.5	0 pump off
9/7/2008			86	1	0	0	0 pump off
9/8/2008			48	21	0	0	0 pump off
9/9/2008			44	23	0	0	0 pump off
9/10/2008			46	22	0	0	0 pump off
9/11/2008			60	22	0	0	0 pump off
9/12/2008			80	20	0	0	0 pump off
9/13/2008			94	18	0	0	0 pump off
9/14/2008			42	21	0	0	0 pump off
9/15/2008			42	21	0	0	0 pump off
9/16/2008			43	21	0	0	0 pump off
9/17/2008			44	21	0	0	0 pump off
9/18/2008			44	21	0	0	0 pump off
9/19/2008			43	21	0	0	0 pump off
9/20/2008			40	20	0	0	0 pump off
9/21/2008			42	21	0	0	0 pump off
9/22/2008			40	20	0	0	0 pump off
9/23/2008			38	20	0	0	0 pump off
9/24/2008			42	20	0	0	0 pump off
9/25/2008			42	20	0	0	0 pump off
9/26/2008			43	19	0	0	0 pump off
9/27/2008			43	19	0	0	0 pump off
9/28/2008			43	19	0	0	0 pump off
9/29/2008			43	19	0	0	0 pump off
9/30/2008			43	19	0	0	0 pump off
10/1/2008						0	

Total

603

0

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