

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow  
 Deliverability

Test Date:  
9/30/2010

API No. 15  
181-20564-00-00

Company Rosewood Resources, Inc.		Lease Topliff			Well Number 33-34
County Sherman	Location NWSE	Section 34	TWP 8S	RNG (E/W) 40W	Acres Attributed 80
Field Goodland		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 8/21/2010		Plug Back Total Depth 1239'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 1279'	Perforations 1074'	To 1106'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single (VERTICLE)	Type Fluid Production Dry Gas	Pump Unit or Traveling Plunger? Flowing	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Producing Thru (Annulus / Tubing) Annulus	% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> .6
Vertical Depth(H) 1290'	Pressure Taps Flange	(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)			
Well on Line: Started 9-30 _____ 20 _____ at 11:05 _____ (AM) (PM) Taken 10-1 _____ 20 _____ at 11:25 _____ (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>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											
Flow						45	59.4			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>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>w</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>w</sub> ) <sup>2</sup> = 0.207	(P <sub>d</sub> ) <sup>2</sup> = _____		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>w</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>w</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 20 day of December, 20 10.

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

*Wayne Mahan*  
For Company  
Checked by \_\_\_\_\_

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JAN 26 2011

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 Topliff 33-34 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: 12/20/10

Signature: Wayne Mader

Title: Assistant 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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KCC WICHITA

W2728  
 Topliff 33-34  
 South Goodland  
 Goodland  
 None  
 September-10  
 FloBoss

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2010				
9/2/2010				
9/3/2010				
9/4/2010				
9/5/2010				
9/6/2010				
9/7/2010				
9/8/2010				
9/9/2010				
9/10/2010				
9/11/2010				
9/12/2010				
9/13/2010				
9/14/2010				
9/15/2010				
9/16/2010				
9/17/2010				
9/18/2010				
9/19/2010				
9/20/2010				
9/21/2010				
9/22/2010				
9/23/2010				
9/24/2010				
9/25/2010				
9/26/2010				
9/27/2010				
9/28/2010				
9/29/2010				
9/30/2010	40	53	0	on line, flowing 28
10/1/2010				

Total 0

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 KCC WICHITA

W2728

Topliff 33-34

South Goodland

Goodland

None

October-10

FloBoss

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
10/1/2010	38	51	0		40 mcf for month, flowing 27
10/2/2010	37	50	25		
10/3/2010	37	50	26		
10/4/2010	36	49	26		
10/5/2010	36	49	26		
10/6/2010	35	48	25		
10/7/2010	35	48	25		
10/8/2010	35	48	25		
10/9/2010	35	48	25		
10/10/2010	34	47	24		
10/11/2010	33	46	24		
10/12/2010	33	46	24		
10/13/2010	32	45	24		
10/14/2010	32	45	24		
10/15/2010	32	45	23		
10/16/2010	31	44	23		
10/17/2010	31	44	23		
10/18/2010	30	43	23		
10/19/2010	30	43	23		
10/20/2010	29	42	23		
10/21/2010	30	43	22		
10/22/2010	30	43	22		
10/23/2010	29	42	22		
10/24/2010	29	42	22		
10/25/2010	29	42	22		
10/26/2010	29	42	22	2	
10/27/2010	28	41	23		bp
10/28/2010	27	40	23		
10/29/2010	27	40	23		
10/30/2010	27	40	23		
10/31/2010	26	40	23		

Total

708

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JAN 25 2011  
KCC WICHITA

W432  
 Topliff 33-34  
 South Goodland  
 Goodland  
 None  
 November-10  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
11/1/2010	26	39	23		
11/2/2010	26	39	22		
11/3/2010	25	38	22		
11/4/2010	25	38	22		
11/5/2010	25	38	22		
11/6/2010	25	38	22		
11/7/2010	25	38	22		
11/8/2010	24	37	22		
11/9/2010	25	38	21		
11/10/2010	24	37	21	bp	
11/11/2010	24	37	21		
11/12/2010	23	36	21		
11/13/2010	24	37	21		
11/14/2010	23	36	20		
11/15/2010	23	36	20		
11/16/2010	23	36	20		
11/17/2010	23	36	20		
11/18/2010	23	36	20	bp	
11/19/2010	22	35	20		
11/20/2010	22	35	20		
11/21/2010	22	35	19		
11/22/2010	22	35	20		
11/23/2010	22	35	19		
11/24/2010	22	35	19		
11/25/2010	22	35	19		
11/26/2010	22	35	19		
11/27/2010	22	35	19		
11/28/2010	22	35	19		
11/29/2010	21	34	19		
11/30/2010	21	34	19		
12/1/2010					

Total

613

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 KCC WICHITA