

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
- Deliverability

Test Date:  
10/6/2010

API No. 15  
181-20566-00 - 00

Company Rosewood Resources, Inc.		Lease Davis			Well Number 42-07
County Sherman	Location SENE	Section 7	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 8/25/2010		Plug Back Total Depth 1268'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 1305'	Perforations 1082'	To 1108'
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) 1315'	Pressure Taps Flange		(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) <input checked="" type="checkbox"/> (PM) Taken _____ 20 _____ at _____ (AM) <input checked="" type="checkbox"/> (PM)			
Well on Line: Started 10-5 _____ 20 10 _____ at 3:30 _____ (AM) <input checked="" type="checkbox"/> (PM) Taken 10-6 _____ 20 10 _____ at 4:00 _____ (AM) <input checked="" type="checkbox"/> (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						48	62.4			24	0

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>dv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>w</sub>
						29		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(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>o</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> 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>o</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>o</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup> divided by: P <sub>o</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" ----- 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 Graham*  
\_\_\_\_\_  
For Company  
\_\_\_\_\_  
Checked by

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**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 Davis 42-07 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 Mahan*

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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W2725  
 Davis 42-07  
 North Goodland  
 Goodland  
 None  
 October-10  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
10/1/2010					blowing to pit
10/2/2010					blowing to pit
10/3/2010					blowing to pit
10/4/2010					blowing to pit, Wayne shut in later
10/5/2010					brought on line flowing 29
10/6/2010	46	59		22	
10/7/2010	46	59		29	2
10/8/2010	46	59		28	
10/9/2010	46	59		28	4
10/10/2010	46	59		28	
10/11/2010	46	59		28	
10/12/2010	46	59		28	opened to 35
10/13/2010	44	57		34	
10/14/2010	44	57		34	
10/15/2010	44	57		34	
10/16/2010	44	57		33	
10/17/2010	43	56		33	
10/18/2010	43	56		33	
10/19/2010	44	57		33	
10/20/2010	44	57		33	
10/21/2010	44	57		33	
10/22/2010	44	57		33	
10/23/2010	43	56		33	
10/24/2010	42	55		33	
10/25/2010	43	56		33	
10/26/2010	42	55		32	3 opened to 41
10/27/2010	40	53		40	
10/28/2010	40	53		40	
10/29/2010	40	52		40	
10/30/2010	39	51		40	
10/31/2010	39	51		39	

Total 854

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W2284  
 Davis 42-07  
 North Goodland  
 Goodland  
 None  
 November-10  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
11/1/2010	39	52		39	0
11/2/2010	38	51		39	0
11/3/2010	38	51		37	4
11/4/2010	38	51		37	0
11/5/2010	37	50		37	0
11/6/2010	38	51		37	0
11/7/2010	38	51		39	0
11/8/2010	38	51		39	0
11/9/2010	38	51		38	0
11/10/2010	37	50		38	0
11/11/2010	37	50		38	0 bp
11/12/2010	37	50		38	0
11/13/2010	37	50		38	0
11/14/2010	37	50		37	0
11/15/2010	37	50		37	0
11/16/2010	37	50		37	0
11/17/2010	36	49		37	0
11/18/2010	36	49		36	0
11/19/2010	36	49		37	0
11/20/2010	36	49		37	0
11/21/2010	36	49		37	0
11/22/2010	36	49		35	0
11/23/2010	36	49		36	0
11/24/2010	36	49		36	0
11/25/2010	36	49		36	0
11/26/2010	36	49		40	0
11/27/2010	35	48		35	0
11/28/2010	35	48		35	0
11/29/2010	35	48		35	0
11/30/2010	35	48		34	0
12/1/2010					0

Total

1111

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W2284  
 Davis 42-07  
 North Goodland  
 Goodland  
 None  
 December-10  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
12/1/2010	35	48		36	0 bp
12/2/2010	35	48		34	0
12/3/2010	35	48		36	0
12/4/2010	34	47		36	0
12/5/2010	34	47		36	0
12/6/2010	34	47		36	0
12/7/2010	34	47		35	0
12/8/2010	37	50		35	0 cd
12/9/2010	34	47		31	6 bp
12/10/2010	35	48		35	3
12/11/2010	34	47		35	0
12/12/2010	34	47		34	0
12/13/2010	34	47		35	0
12/14/2010	34	47		35	0
12/15/2010	34	47		35	0
12/16/2010	34	47		35	0
12/17/2010	34	47		35	0
12/18/2010	35	48		35	0
12/19/2010	34	47		34	0
12/20/2010	33	46		34	0
12/21/2010	33	46		35	0 bp
12/22/2010	33	46		35	0
12/23/2010	33	46		33	0
12/24/2010	34	47		30	0
12/25/2010	33	46		34	0
12/26/2010	33	46		32	0
12/27/2010	34	47		32	0
12/28/2010	33	46		33	0 bp
12/29/2010	34	47		34	0
12/30/2010	34	47		33	0
12/31/2010	33	46		33	0

Total

1061

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