

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

(See Instructions on Reverse Side)

Type Test:

Open Flow  **SI**  
 Deliverability

Test Date:  
7/13/2011

API No. 15  
023-20611-00 -00

Company Rosewood Resources, Inc.		Lease Grace		Well Number 1-24	
County Cheyenne	Location NW SE/4	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 5/4/2005		Plug Back Total Depth 1507'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1507'	Perforations 1302'	To 1334'
Tubing Size <del>NONE</del> 2 3/8"	Weight	Internal Diameter 1371'	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1334'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut In 7-12		20 11 at 9:35		(AM)(PM) Taken 7-13	
Well on Line: Started 7-13		20 11 at 9:50		(AM)(PM) Taken 7-14	
		20 11 at 10:35		(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>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						62	76.4				
Flow						64	78.4			24	0

### 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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						39		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>o</sub> ) <sup>2</sup> - (P <sub>o</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>o</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>o</sub> <sup>2</sup> - P <sub>w</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: $\frac{P_o^2 - P_w^2}{P_o^2 - P_w^2}$	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 28 day of December, 20 11.

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

\_\_\_\_\_  
For Company  
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**APR 24 2012**  
**KCC WICHITA**

Checked by

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 Grace 1-24 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: 12/28/11

Signature:   
Title: Production Assistant

**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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W348  
 Grace 1-24  
 St. Francis  
 St. Francis  
 None  
 July-11  
 FloBoss

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2011	67	80	41	6	1		1	
7/2/2011	67	80	41	6	1		1	
7/3/2011	67	80	41	6	1		1	
7/4/2011	67	80	41	6	1		1	
7/5/2011	67	80	41	6	1		1	
7/6/2011	66	79	41	6	1		2	
7/7/2011	67	80	41	6	1		1	7.5 min bt greased
7/8/2011	67	80	41	6	1		1	
7/9/2011	67	80	41	6	1		1	
7/10/2011	67	80	41	6	1		1	
7/11/2011	66	79	41	6	1		1	5 min bt
7/12/2011	66	79	42	6	1		1	squeezed well, SI
7/13/2011	62	75	0	6	1	24	1	reopened well
7/14/2011	66	79	59	6	1		1	
7/15/2011	66	79	40	6	1		1	
7/16/2011	66	79	39	6	1		1	
7/17/2011	70	83	38	6	1		1	
7/18/2011	78	91	38	6	1		1	pu off, high field pressure
7/19/2011	68	81	37	6	1	2	1	restart pu 6 min bt
7/20/2011	66	79	39	6	1		1	
7/21/2011	73	86	35	6	1		1	pu off, high field pressure
7/22/2011	64	77	39	6	1		1	restart pu
7/23/2011	64	77	39	6	1		1	
7/24/2011	64	77	39	6	1		1	
7/25/2011	64	77	39	6	1		1	
7/26/2011	64	77	39	6	1		1	
7/27/2011	64	77	39	6	1		1	
7/28/2011	65	78	39	6	1		1	6 min bt
7/29/2011	77	90	33	6	1		1	pu off, high field pressure
7/30/2011	52	65	41	6	1		1	started pumping unit
7/31/2011	52	65	39	6	1		2	

Total

1204

33

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W348  
 Gracé 1-24  
 St. Francis  
 St. Francis  
 None  
 August-11  
 FloBoss

DATE	Casing			SPM	CYCLIDOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF					
8/1/2011	66	79	39	6	1	1	1	
8/2/2011	64	77	39	6	1	1	1	
8/3/2011	66	79	39	6	1	1	1	6 min bt
8/4/2011	65	78	39	6	1	1	1	
8/5/2011	64	77	39	6	1	1	1	
8/6/2011	65	78	39	6	1	1	1	
8/7/2011	64	77	40	6	1	1	1	
8/8/2011	64	77	40	6	1	1	1	5.25 min bt greased
8/9/2011	64	77	40	6	1	1	1	
8/10/2011	61	74	40	6	1	1	1	
8/11/2011	73	86	40	6	0.5	0.5	0.5	turned off pu high fp
8/12/2011	92	105	32	6	0	0	0	
8/13/2011	83	96	37	6	0	0	0	
8/14/2011	75	88	33	6	0	0	0	
8/15/2011	89	102	33	6	0	0	0	
8/16/2011	65	78	41	6	0.5	0.5	0.5	restart pu
8/17/2011	105	118	27	6	0.5	5	0.5	pu off hfp
8/18/2011	64	77	34	6	0.5	4	0.5	restart pu
8/19/2011	72	85	40	6	1	1	1	
8/20/2011	64	77	42	6	1	1	1	
8/21/2011	65	78	40	6	1	1	1	
8/22/2011	64	77	40	6	1	1	1	
8/23/2011	83	96	40	6	1	1	1	8 min bt
8/24/2011	61	74	40	6	1	1	1	
8/25/2011	65	78	40	6	1	1	1	
8/26/2011	63	76	40	6	1	1	1	
8/27/2011	64	77	40	6	1	2	2	
8/28/2011	65	78	40	6	1	1	1	
8/29/2011	64	77	40	6	1	2	2	
8/30/2011	64	77	40	6	1	1	1	6.25 min bt
8/31/2011	64	77	41	6	1	1	1	

Total

1194

27

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W348

Grace 1-24

St. Francis

St. Francis

None

September-11

FloBoss

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2011	65	78	41	6	1	1	
9/2/2011	65	78	41	6	1	1	
9/3/2011	65	78	41	6	1	1	
9/4/2011	65	78	41	6	1	1	
9/5/2011	64	77	41	6	1	1	
9/6/2011	64	77	41	6	1	1	6.25 min bt
9/7/2011	65	78	41	6	1	1	
9/8/2011	64	77	41	6	1	1	
9/9/2011	65	78	41	6	1	1	
9/10/2011	64	77	41	6	1	1	
9/11/2011	65	78	41	6	1	1	
9/12/2011	64	77	41	6	1	1	
9/13/2011	64	77	41	6	1	1	
9/14/2011	65	78	41	6	1	1	
9/15/2011	63	76	41	6	1	1	
9/16/2011	64	77	41	6	1	1	6 min bt
9/17/2011	63	76	41	6	1	1	
9/18/2011	63	79	41	6	1	1	
9/19/2011	64	77	41	6	1	1	
9/20/2011	64	77	41	6	1	1	5 min bt
9/21/2011	64	77	41	6	1	1	
9/22/2011	63	76	41	6	1	1	
9/23/2011	62	75	41	6	1	1	
9/24/2011	64	77	40	6	1	1	
9/25/2011	64	77	40	6	1	1	
9/26/2011	63	76	40	6	1	1	
9/27/2011	61	74	40	6	1	1	
9/28/2011	68	81	40	6	2	3	5.25 min bt chg timer to 2 hrs
9/29/2011	61	74	40	6	2	2	
9/30/2011	61	74	40	6	2	2	
10/1/2011							

Total

1223

34

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