

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

Open Flow **AST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
9/7/2011

API No. 15
023-20536-00 - **00**

Company Rosewood Resources, Inc.		Lease Raymond		Well Number 3-4	
County Cheyenne	Location SESE	Section 4	TWP 3S	RNG (E/W) 42W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10-7-2005		Plug Back Total Depth 1773'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1777'	Perforations 1578'	To 1613'
Tubing Size NONE ? 2 3/8"	Weight	Internal Diameter	Set at 1659'	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 - pump inoperable	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen Gas Gravity - G _g .6	
Vertical Depth(H) 1613'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut In 9-6		20 11 at 1:20		(AM) <input checked="" type="checkbox"/> (PM) Taken 9-7	
Well on Line: Started 9-7		20 11 at 1:35		(AM) <input checked="" type="checkbox"/> (PM) Taken 9-8	

OBSERVED SURFACE DATA

Duration of Shut-in **24** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						158	172.4				
Flow						28	42.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						11		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ : (P_w)² = _____ : P_d = _____ % (P_e - 14.4) + 14.4 = _____ : (P_w)² = 0.207

(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _d ² 2. P _e ² - P _w ² divided by: P _e ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_w^2}$	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 28 day of December, 20 11.

Witness (if any)

For Commission

Jonall Oliver
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 Raymond 3-4 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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W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 September-11

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLIDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2011		28	41	11	4	0	0	
9/2/2011		27	40	11	4		0	
9/3/2011		28	41	11	4		0	
9/4/2011		29	42	11	4		0	
9/5/2011		29	42	11	4		0	
9/6/2011		27	40	11	4		0	shut well into do state test
9/7/2011		158	43	0	4	24	0	opened well
9/8/2011		32	45	18	4		0	
9/9/2011		30	43	13	4		0	
9/10/2011		30	43	12	4		0	
9/11/2011		30	43	12	4		0	
9/12/2011		29	42	11	4		0	
9/13/2011		29	42	11	4		0	
9/14/2011		70	83	11	4		0	
9/15/2011		74	87	10	4		0	
9/16/2011		66	79	11	4		0	
9/17/2011		43	56	11	4		0	
9/18/2011		43	56	11	4		0	
9/19/2011		34	47	11	4		0	
9/20/2011		28	41	11	4		0	
9/21/2011		28	41	11	4		0	
9/22/2011		34	47	11	4		0	
9/23/2011		59	72	11	4		0	
9/24/2011		66	79	11	4		0	
9/25/2011		69	82	11	4		0	
9/26/2011		68	81	11	4		0	
9/27/2011		70	83	11	4		0	
9/28/2011		73	86	11	4		0	
9/29/2011		73	86	11	4		0	
9/30/2011		71	84	11	4		0	
10/1/2011								

WHY NO H₂O
 VOLUMES?

Total

329

0

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 KCC WICHITA

W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 October-11

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
10/1/2011		73	85	11	4 0		0	0
10/2/2011		65	83	11	4 0		0	0
10/3/2011		63	77	11	4 0		0	0
10/4/2011		62	64	11	4 0		0	0
10/5/2011		33	52	11	4 0		0	0
10/6/2011		63	55	10	4 0		0	0
10/7/2011		68	79	10	4 0		0	0
10/8/2011		35	62	11	4 0		0	0
10/9/2011		29	45	11	4 0		0	0
10/10/2011		27	41	11	4 0		0	0
10/11/2011		26	40	11	4 0		0	0
10/12/2011		26	42	11	4 0		0	0
10/13/2011		30	43	11	4 0		0	0
10/14/2011		26	43	11	4 0		0	0
10/15/2011		30	42	11	4 0		0	0
10/16/2011		30	44	11	4 0		0	0
10/17/2011		29	43	11	4 0		0	0 calitbarated meter
10/18/2011		28	42	9	4 0		0	0
10/19/2011		28	42	10	4 0		0	0
10/20/2011		28	41	11	4 0		0	0
10/21/2011		28	40	11	4 0		0	0
10/22/2011		28	42	10	4 0		0	0
10/23/2011		28	41	10	4 0		0	0
10/24/2011		28	40	10	4 0		0	0
10/25/2011		27	42	11	4 0		0	0
10/26/2011		27	40	10	4 0		0	0
10/27/2011		27	40	10	4 0		0	0
10/28/2011		27	39	10	4 0		0	0
10/29/2011		27	39	10	4 0		0	0
10/30/2011		26	39	10	4 0		0	0
10/31/2011		26	39	10	4 0		0	0

Total

327

0

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W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 November-11

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water	REMARKS (Maximum length 110 characters)
	PSI	PSI						
11/1/2011		36	39	10	4 0	0	0	
11/2/2011		26	39	10	4 0	0	0	
11/3/2011		26	40	11	4 0	0	0	
11/4/2011		26	39	10	4 0	0	0	
11/5/2011		26	39	10	4 0	0	0	
11/6/2011		27	40	10	4 0	0	0	
11/7/2011		27	40	10	4 0	0	0	
11/8/2011		27	40	10	4 0	0	0	
11/9/2011		26	39	10	4 0	0	0	
11/10/2011		26	38	10	4 0	0	0	
11/11/2011		47	40	10	4 0	0	0	
11/12/2011		65	68	10	4 0	0	0	
11/13/2011		50	79	10	4 0	0	0	
11/14/2011		36	56	11	4 0	0	0	
11/15/2011		29	44	10	4 0	0	0	
11/16/2011		33	45	10	4 0	0	0	
11/17/2011		32	46	10	4 0	0	0	
11/18/2011		34	45	10	4 0	0	0	
11/19/2011		33	47	10	4 0	0	0	
11/20/2011		33	47	9	4 0	0	0	
11/21/2011		29	44	9	4 0	0	0	
11/22/2011		29	44	10	4 0	0	0	
11/23/2011		33	45	10	4 0	0	0	
11/24/2011		33	53	10	4 0	0	0	
11/25/2011		37	56	10	4 0	0	0	
11/26/2011		33	50	10	4 0	0	0	
11/27/2011		31	46	10	4 0	0	0	
11/28/2011		31	42	10	4 0	0	0	
11/29/2011		31	42	10	4 0	0	0	
11/30/2011		30	43	10	4 0	0	0	
12/1/2011		0	0	0	0 0	0	0	
Total			300				0	

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