

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow Deliverability

(See Instructions on Reverse Side)

Test Date:
10/19/14

API No. 15
023-20536-0000

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	Weight	Internal Diameter	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) 1613'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 10-18		20 14 at 1:20		(AM) (PM) Taken 10-19	
Well on Line: Started 10-19		20 14 at 1:35		(AM) (PM) Taken 10-20	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						107	121.4				
Flow						17	31.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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
						6		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_g)² = 0.207
(P_d)² = _____

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

(P _c) ² - (P _g) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 on the 10 day of December, 20 14.

KANSAS CORPORATION COMMISSION

FEB 25 2015 *Samuel Martinez*
For Company

Witness (if any)

For Commission

CONSERVATION DIVISION
WICHITA, KS

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 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: 12/10/14

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KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Jonell Matney*
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.*

W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 October-14

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
10/1/2014		73	86		6				
10/2/2014		75	88		6				
10/3/2014		71	84		6				
10/4/2014		37	50		7				
10/5/2014		28	41		6				
10/6/2014		20	33		6				
10/7/2014		70	83		6				
10/8/2014		41	54		6				
10/9/2014		67	80		6			0	
10/10/2014		19	32		6			0	
10/11/2014		19	32		6			0	
10/12/2014		19	32		6			0	
10/13/2014		20	33		6			0	
10/14/2014		20	33		6			0	
10/15/2014		20	33		6			0	
10/16/2014		20	33		6			0	
10/17/2014		20	33		6			0	
10/18/2014		18	31		6			0	shut in for state test
10/19/2014		107	120		0			24	opened well
10/20/2014		18	31		11			0	
10/21/2014		18	31		11			0	
10/22/2014		18	31		6			0	
10/23/2014		19	32		7			0	
10/24/2014		19	32		7			0	
10/25/2014		19	32		7			0	
10/26/2014		19	32		7			0	
10/27/2014		19	32		7			0	
10/28/2014		19	32		7			0	
10/29/2014		19	32		7			0	
10/30/2014		19	32		7			0	
10/31/2014		19	32		6			0	

Total

199

0

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 WICHITA, KS

W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 November-14

DATE	Tubing PSI	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
11/1/2014		19	32		6	4	
11/2/2014		19	32		6	24	
11/3/2014		19	32		6	0	
11/4/2014		19	32		6	3	
11/5/2014		19	32		6	0	
11/6/2014		19	32		6	0	
11/7/2014		18	31		6	0	
11/8/2014		19	32		6	0	
11/9/2014		19	32		6	0	
11/10/2014		19	32		6	0	
11/11/2014		15	28		6	0	
11/12/2014		15	28		6	0	
11/13/2014		15	28		6	5	
11/14/2014		15	28		6	0	
11/15/2014		15	28		6	0	
11/16/2014		15	28		6	0	
11/17/2014		15	28		6	0	
11/18/2014		17	30		6	0	
11/19/2014		17	30		6	0	
11/20/2014		17	30		6	0	
11/21/2014		17	30		6	0	
11/22/2014		16	29		6	0	
11/23/2014		16	29		6	0	
11/24/2014		16	29		6	0	
11/25/2014		16	29		6	0	
11/26/2014		16	29		6	0	
11/27/2014		16	29		6	0	
11/28/2014		16	29		6	0	
11/29/2014		16	29		6	0	
11/30/2014		16	29		6	0	
12/1/2014						0	

Total

180

0

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 KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION
 WICHITA, KS

W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 December-14

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
12/1/2014		17	30		5				
12/2/2014		17	30		6				
12/3/2014		15	28		6				
12/4/2014		15	28		6				
12/5/2014		18	31		7				
12/6/2014		18	31		6				
12/7/2014		18	31		6				
12/8/2014		17	30		6				
12/9/2014		17	30		6				
12/10/2014		17	30		6				
12/11/2014		17	30		6				
12/12/2014		17	30		6				
12/13/2014		17	30		6				
12/14/2014		17	30		6				
12/15/2014		17	30		6				
12/16/2014		17	30		6				
12/17/2014		16	29		6				
12/18/2014		17	30		6				
12/19/2014		15	28		9				
12/20/2014		15	28		6				
12/21/2014		15	28		6				
12/22/2014		15	28		6				
12/23/2014		15	28		6				
12/24/2014		17	30		6				
12/25/2014		17	30		6				
12/26/2014		18	31		6				
12/27/2014		14	27		5				
12/28/2014		14	27		5				
12/29/2014		14	27		5				
12/30/2014		14	27		5				
12/31/2014		14	27		5				

Total

184

0

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FEB 25 2015

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 WICHITA, KS