

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASL**
- Deliverability

(See Instructions on Reverse Side)

Test Date:
7/25/2013

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="radio"/> Yes / No Pumping Unit	
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 7-24		20 13	at 1:20	(AM) (PM) Taken 7-25	20 13 at 1:35 (AM) (PM)
Well on Line: Started 7-25		20 13	at 1:35	(AM) (PM) Taken 7-26	20 13 at 2:20 (AM) (PM)

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						200	214.4				
Flow						18	32.4			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
						8		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² = _____

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

(P _c) ² - (P _a) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 10 day of December, 20 13.

Witness (if any)

For Commission

Jamall Martiney

For Company

KCC WICHITA

Checked by

DEC 26 2013

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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: 12/10/13

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
 July-13

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	20	33	8	
7/2/2013	20	33	8	
7/3/2013	20	33	8	
7/4/2013	20	33	8	
7/5/2013	20	33	8	
7/6/2013	20	33	8	
7/7/2013	20	33	8	
7/8/2013	20	33	8	
7/9/2013	21	34	8	
7/10/2013	20	33	8	
7/11/2013	20	33	8	
7/12/2013	21	34	8	
7/13/2013	21	34	8	
7/14/2013	21	34	8	
7/15/2013	21	34	8	
7/16/2013	21	34	8	
7/17/2013	21	34	8	
7/18/2013	21	34	8	
7/19/2013	20	33	8	treated well
7/20/2013	20	33	7	
7/21/2013	19	32	7	
7/22/2013	20	33	8	
7/23/2013	19	32	8	
7/24/2013	18	31	8	shut in for state test 18 psi
7/25/2013	200	30	0	24 open well 200psi
7/26/2013	19	32	10	
7/27/2013	19	32	9	
7/28/2013	19	32	8	
7/29/2013	20	33	8	
7/30/2013	20	33	8	
7/31/2013	20	33	8	

Total 241

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W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 August-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
8/1/2013	19	32	8	1	
8/2/2013	18	31	8		
8/3/2013	19	32	8		
8/4/2013	19	32	8		
8/5/2013	19	32	8		
8/6/2013	18	31	8		
8/7/2013	19	32	8		
8/8/2013	19	32	8		
8/9/2013	29	33	8		
8/10/2013	18	31	8		
8/11/2013	18	31	8		
8/12/2013	18	31	8		
8/13/2013	18	31	8		
8/14/2013	18	31	8		
8/15/2013	18	31	8		
8/16/2013	17	30	7		
8/17/2013	18	31	7		
8/18/2013	17	30	7		
8/19/2013	17	30	7		
8/20/2013	18	31	7		
8/21/2013	18	31	7		
8/22/2013	18	31	7		
8/23/2013	18	31	7		
8/24/2013	18	31	7		
8/25/2013	18	31	7		
8/26/2013	18	31	7		
8/27/2013	18	31	7		
8/28/2013	18	31	7		
8/29/2013	18	31	7		
8/30/2013	18	31	7		
8/31/2013	18	31	7		

Total

232

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W367
 Raymond 3-4
 West St. Francis
 St. Francis
 Pumping Unit/Gas
 September-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
9/1/2013	17	30		7	
9/2/2013	17	30		7	
9/3/2013	17	30		7	
9/4/2013	17	30		7	
9/5/2013	17	30		7	
9/6/2013	17	30		7	
9/7/2013	17	30		7	
9/8/2013	17	30		7	
9/9/2013	17	30		7	
9/10/2013	17	30		7	
9/11/2013	17	30		7	
9/12/2013	17	30		7	
9/13/2013	17	30		7	
9/14/2013	17	30		7	
9/15/2013	17	30		7	
9/16/2013	17	30		7	
9/17/2013	17	30		7	
9/18/2013	18	31		7	
9/19/2013	17	30		7	
9/20/2013	17	30		7	
9/21/2013	17	30		7	
9/22/2013	17	30		7	
9/23/2013	17	30		7	
9/24/2013	17	30		7	
9/25/2013	18	31		7	
9/26/2013	18	31		7	
9/27/2013	18	31		7	
9/28/2013	70	83		7	treated well
9/29/2013	19	32		8	
9/30/2013	19	32		7	
10/1/2013					

Total

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