

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/1/2015

API No. 15
023-20635-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 14-3	
County Cheyenne	Location SWSW	Section 3	TWP 3S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10-21-2005		Plug Back Total Depth 1715'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1715'	Perforations 1575'	To 1607'
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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1573'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-1		20 15 at 1:15		(AM) (PM) Taken 6-4	
Well on Line: Started 6-4		20 15 at 1:30		(AM) (PM) Taken 6-5	

OBSERVED SURFACE DATA

Duration of Shut-in 96 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						192	206.4				
Flow						56	70.4			96	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
						2		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.207

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

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w 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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	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 21 day of December, 20 15.

KCC WICHITA

Jannell Martiny
For Company

Witness (if any)

APR 07 2016

For Commission

Checked by

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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 Ella Mae 14-03 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: 12/21/15

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Signature: *Donnell Martiney*
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.

W435 WELL ID
 Ella Mae 14-03 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 June-15 DATE

DATE	Line PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2015	144	144	152		0	24
6/2/2015	144	144	157		0	24
6/3/2015	172	172	185		0	24
6/4/2015	179	179	192		0	24
6/5/2015	103	103	116		5	0
6/6/2015	79	79	92		2	0
6/7/2015	71	71	84		2	0
6/8/2015	62	62	75		2	0
6/9/2015	47	47	60		2	0
6/10/2015	45	45	58		2	0
6/11/2015	45	45	58		2	0
6/12/2015	44	44	57		2	0
6/13/2015	43	43	56		2	0
6/14/2015	43	43	56		2	0
6/15/2015	43	43	56		2	0
6/16/2015	43	43	56		2	0
6/17/2015	42	42	55		2	0
6/18/2015	44	44	57		2	0
6/19/2015	57	57	70		2	2
6/20/2015	54	54	67		0	22
6/21/2015	118	118	131		3	0
6/22/2015	56	56	69		2	0
6/23/2015	41	41	54		1	0
6/24/2015	42	42	55		2	0
6/25/2015	41	41	54		2	0
6/26/2015	42	42	55		2	0
6/27/2015	41	41	54		2	0
6/28/2015	42	42	55		2	0
6/29/2015	42	42	55		2	0
6/30/2015	42	42	55		2	0
7/1/2015	-13	-13	0		0	0

Total

53

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W435 WELL ID
 Ella Mae 14-03 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 July-15 DATE

DATE	Line PSI	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2015	42	42	55	2	0
7/2/2015	42	42	55	2	0
7/3/2015	42	42	55	2	0
7/4/2015	42	42	55	2	0
7/5/2015	42	42	55	2	0
7/6/2015	49	49	62	2	2
7/7/2015	41	41	54	2	0
7/8/2015	41	41	54	2	16
7/9/2015	41	41	54	0	24
7/10/2015	166	166	179	0	14
7/11/2015	125	125	138	4	0
7/12/2015	74	74	87	1	0
7/13/2015	62	62	75	2	0
7/14/2015	44	44	57	2	0
7/15/2015	41	41	54	2	0
7/16/2015	42	42	55	2	0
7/17/2015	41	41	54	2	0
7/18/2015	41	41	54	2	0
7/19/2015	41	41	54	2	0
7/20/2015	40	40	53	2	0
7/21/2015	51	51	64	2	4
7/22/2015	42	42	55	2	0
7/23/2015	41	41	54	2	0
7/24/2015	41	41	54	2	0
7/25/2015	41	41	54	2	0
7/26/2015	40	40	53	2	0
7/27/2015	40	40	53	2	0
7/28/2015	40	40	53	2	0
7/29/2015	39	39	52	2	0
7/30/2015	39	39	52	2	0
7/31/2015	40	40	53	2	0

Total 59

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W435 WELL ID
 Ella Mae 14-03 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 August-15 DATE

DATE	Line PSI	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2015	40	40	53	2	0
8/2/2015	40	40	53	2	0
8/3/2015	41	41	54	2	0
8/4/2015	40	40	53	2	0
8/5/2015	40	40	53	2	0
8/6/2015	40	40	53	2	0
8/7/2015	40	40	53	2	0
8/8/2015	40	40	53	2	0
8/9/2015	40	40	53	2	0
8/10/2015	40	40	53	2	0
8/11/2015	40	40	53	2	0
8/12/2015	40	40	53	2	0
8/13/2015	41	41	54	2	0
8/14/2015	41	41	54	2	0
8/15/2015	42	42	55	2	0
8/16/2015	43	43	56	2	0
8/17/2015	42	42	55	2	0
8/18/2015	42	42	55	2	0
8/19/2015	43	43	56	2	0
8/20/2015	42	42	55	2	0
8/21/2015	43	43	56	2	0
8/22/2015	43	43	56	2	0
8/23/2015	44	44	57	2	0
8/24/2015	44	44	57	2	0
8/25/2015	45	45	58	1	0
8/26/2015	43	43	56	2	0
8/27/2015	43	43	56	2	0
8/28/2015	42	42	55	2	0
8/29/2015	44	44	57	2	0
8/30/2015	47	47	60	2	0
8/31/2015	49	49	62	2	0

Total

61

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