

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

Type Test:

- Open Flow **OFI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/9/2015

API No. 15  
023-20612-0000

Company Rosewood Resources, Inc.		Lease LeeRoy		Well Number 1-25	
County Cheyenne	Location NW NE/4	Section 25	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 5/5/2005		Plug Back Total Depth 1541'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 2541'	Perforations 1338'	To 1374'
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	
Vertical Depth(H) 1374'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-9		20 15 at 9:40		<input checked="" type="radio"/> (AM) (PM) Taken 7-10	
Well on Line: Started 7-10		20 15 at 9:55		<input checked="" type="radio"/> (AM) (PM) Taken 7-11	

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	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>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						109	123.4				
Flow						53	67.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>
						31		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

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

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>d</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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 [ ]	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 18 day of December, 20 15.

**KCC WICHITA**

*Jannell Matney*  
For Company

Witness (if any)

APR 07 2016

For Commission

Checked by

**RECEIVED**

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 LeeRoy 1-25 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: 12/18/15

**KCC WICHITA**

**APR 07 2016**

**RECEIVED**

Signature: *Jannal Mantey*  
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.

W356

Leeroy 01-25

St. Francis

St. Francis

None

July-15

FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2015		49	62		33	6	1	0	3
7/2/2015		49	62		33	6	1	0	3
7/3/2015		49	62		33	6	1	0	3
7/4/2015		49	62		33	6	1	0	3
7/5/2015		49	62		33	6	1	0	3
7/6/2015		48	61		33	6	1	2	3
7/7/2015		48	61		32	6	1	0	3
7/8/2015		48	61		32	6	1	16	3 turn off p u
7/9/2015		55	68		0	6	1	24	0
7/10/2015		109	122		1	6	1	14	0
7/11/2015		97	110		19	6	1	0	0
7/12/2015		75	88		19	6	1	0	0
7/13/2015		59	72		37	6	1	0	0 restarted
7/14/2015		49	62		34	6	1	0	3
7/15/2015		50	63		33	6	1	0	3
7/16/2015		49	62		33	6	1	0	3
7/17/2015		49	62		33	6	1	0	3
7/18/2015		48	61		33	6	1	0	3
7/19/2015		47	60		33	6	1	0	3
7/20/2015		47	60		33	6	1	0	3
7/21/2015		51	64		31	6	1	2	3
7/22/2015		48	61		32	6	1	0	3
7/23/2015		47	60		32	6	1	0	3
7/24/2015		47	60		32	6	1	0	3
7/25/2015		47	60		32	6	1	0	3
7/26/2015		47	60		32	6	1	0	3
7/27/2015		47	60		31	6	1	0	3
7/28/2015		47	60		31	6	1	0	3
7/29/2015		47	60		31	6	1	0	3
7/30/2015		47	60		31	6	1	0	3
7/31/2015		47	60		31	6	1	0	3

Total

917

78

KCC WICHITA  
APR 07 2016  
RECEIVED

W356

Leeroy 01-25

St. Francis

St. Francis

None

August-15

FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2015		47	60	41	6	6	1	0	2
8/2/2015		48	61	41	6	6	1	0	2
8/3/2015		46	59	41	6	6	1	0	2
8/4/2015		46	59	41	6	6	1	0	2
8/5/2015		46	59	41	6	6	1	0	2
8/6/2015		46	59	41	6	6	1	0	2
8/7/2015		46	59	41	6	6	1	0	2
8/8/2015		47	60	41	6	6	1	0	2
8/9/2015		50	63	41	6	6	1	0	2
8/10/2015		51	64	41	6	6	1	0	2
8/11/2015		52	65	31	6	6	1	0	2
8/12/2015		52	65	31	6	6	1	0	2
8/13/2015		52	65	31	6	6	1	0	2
8/14/2015		52	65	31	6	6	1	0	2
8/15/2015		53	66	31	6	6	1	0	2
8/16/2015		53	66	36	6	6	1	0	2
8/17/2015		53	66	36	6	6	1	0	2
8/18/2015		53	66	31	6	6	1	0	2
8/19/2015		53	66	31	6	6	1	0	2
8/20/2015		53	66	31	6	6	1	0	2
8/21/2015		53	66	31	6	6	1	0	2
8/22/2015		53	66	31	6	6	1	0	2
8/23/2015		53	66	31	6	6	1	0	2
8/24/2015		52	65	31	6	6	1	0	2
8/25/2015		53	66	31	6	6	1	0	2
8/26/2015		53	66	31	6	6	1	0	2
8/27/2015		53	66	31	6	6	1	0	2
8/28/2015		53	66	31	6	6	1	0	2
8/29/2015		53	66	31	6	6	1	0	2
8/30/2015		53	66	31	6	6	1	4	2
8/31/2015		53	66	31	6	6	1		2

Total

1071

62

KCC WICHITA

APR 07 2016

RECEIVED

W356

Leeroy 01-25

St. Francis

St. Francis

None

September-15

FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2015		48	61	28	6	1	0	2	
9/2/2015		48	61	32	6	1	0	2	
9/3/2015		51	64	32	6	1	0	2	
9/4/2015		60	73	31	6	1	0	2	
9/5/2015		60	73	31	6	1	0	2	
9/6/2015		57	70	31	6	1	0	2	
9/7/2015		57	70	31	6	1	0	2	
9/8/2015		57	70	31	6	1	0	2	
9/9/2015		50	63	31	6	1	0	2	
9/10/2015		50	63	31	6	1	0	2	
9/11/2015		50	63	31	6	1	0	2	
9/12/2015		50	63	31	6	1	0	2	
9/13/2015		50	63	31	6	1	0	2	
9/14/2015		50	63	31	6	1	0	2	
9/15/2015		50	63	31	6	1	0	2	
9/16/2015		50	63	31	6	1	0	2	
9/17/2015		50	63	31	6	1	0	2	
9/18/2015		50	63	31	6	1	0	2	
9/19/2015		50	63	31	6	1	0	2	
9/20/2015		50	63	31	6	1	0	2	
9/21/2015		50	63	31	6	1	0	2	
9/22/2015		50	63	31	6	1	0	2	
9/23/2015		50	63	31	6	1	0	2	
9/24/2015		50	63	31	6	1	0	2	
9/25/2015		50	63	31	6	1	0	2	
9/26/2015		50	63	31	6	1	0	2	
9/27/2015		50	63	31	6	1	0	2	
9/28/2015		50	63	31	6	1	0	2	
9/29/2015		50	63	31	6	1	0	2	
9/30/2015		50	63	31	6	1	0	2	
10/1/2015			13						

Total

929

60

KCC WICHITA

APR 07 2016

RECEIVED