

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

(See Instructions on Reverse Side)

Type Test:

Open Flow **OSF**  
 Deliverability

Test Date:  
7/13/2011

API No. 15  
023-20612-00 - 00

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 <b>NONE 2 3/8"</b>	Weight	Internal Diameter	Set at <b>1399'</b>	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		Gas Gravity - G <sub>g</sub> .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-12		20 11 at 9:40		(AM) (PM) Taken 7-13	
Well on Line: Started 7-13		20 11 at 9:55		(AM) (PM) Taken 7-14	
				20 11 at 9:55 (AM) (PM)	
				20 11 at 10:40 (AM) (PM)	

### 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>1</sub> ) or (P <sub>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						45	59.4				
Flow						64	78.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>0</sub> ) (F <sub>1</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>
						35		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>e</sub>)<sup>2</sup> = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ ; P<sub>g</sub> = \_\_\_\_\_ % ; (P<sub>e</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>e</sub>)<sup>2</sup> = 0.207 ; (P<sub>g</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup>	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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" ----- 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 28 day of December, 20 11.

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

*Jonnie Grew*  
\_\_\_\_\_  
For Company  
\_\_\_\_\_  
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 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: 12/28/11

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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Leeroy 01-25'

St. Francis

St. Francis

None

July-11

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2011		68	81	43	6	2	3	
7/2/2011		68	81	43	6	2	2	
7/3/2011		67	80	43	6	2	2	
7/4/2011		68	71	43	6	2	1	
7/5/2011		68	71	43	6	2	4	
7/6/2011		67	80	43	6	2	3	
7/7/2011		68	81	43	6	2	3	5.5 min bt greased
7/8/2011		68	81	43	6	2	2	
7/9/2011		68	81	43	6	2	2	
7/10/2011		68	81	44	6	2	2	
7/11/2011		67	80	44	6	2	3	
7/12/2011		67	80	44	6	1	1	squeezed well, SI
7/13/2011		45	58	0	6	1	24	1 aeopened well
7/14/2011		67	80	43	6	2	1	
7/15/2011		67	80	42	6	2	1	
7/16/2011		67	80	41	6	2	1	
7/17/2011		71	84	40	6	2	1	
7/18/2011		78	91	40	6	1	1	pu off, high field pressure
7/19/2011		69	82	36	6	1	1	restart pu
7/20/2011		67	80	36	6	2	2	8 min bt
7/21/2011		74	87	32	6	1	1	pu off, high field pressure
7/22/2011		64	77	37	6	1	1	restart pu
7/23/2011		64	77	35	6	2	1	
7/24/2011		65	78	35	6	2	1	
7/25/2011		64	77	35	6	2	1	
7/26/2011		64	77	35	6	2	1	
7/27/2011		64	77	35	6	2	1	8 min bt
7/28/2011		66	79	35	6	2	1	
7/29/2011		78	101	31	6	2	1	
7/30/2011		53	66	39	6	2	2	
7/31/2011		53	66	37	6	2	1	

Total

1183

49

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Leeroy 01-25

St. Francis

St. Francis

None

August-11

FloBoss

DATE	Tubing Casing				HRS	Water CYCLE DOWN BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI	STATIC MCF	SPM			
8/1/2011		66	79	37	6	2	1
8/2/2011		65	78	37	6	2	1
8/3/2011		66	79	37	6	2	3
8/4/2011		65	78	37	6	2	2 7.5 min bt greased
8/5/2011		64	77	37	6	2	1
8/6/2011		66	79	37	6	2	1
8/7/2011		65	78	37	6	2	2
8/8/2011		64	77	37	6	2	2
8/9/2011		64	77	37	6	2	2 8 min bt
8/10/2011		62	75	37	6	2	3
8/11/2011		74	87	37	6	1	1 shut pumping unit off hfp
8/12/2011		93	106	31	6	0	0
8/13/2011		83	96	36	6	0	0
8/14/2011		76	89	32	6	0	0
8/15/2011		89	102	33	6	0	0
8/16/2011		66	79	40	6	1	1 restart pu
8/17/2011		106	119	34	6	1	5 1 pu off hfp
8/18/2011		65	78	36	6	1	4 1 restart pu
8/19/2011		72	85	38	6	1	1 1
8/20/2011		64	77	38	6	1	1
8/21/2011		65	78	36	6	1	1
8/22/2011		64	77	36	6	1	1
8/23/2011		84	97	36	6	1	1
8/24/2011		61	74	36	6	1	1 7 min bt
8/25/2011		66	79	36	6	1	1
8/26/2011		64	77	36	6	1	1
8/27/2011		65	78	36	6	1	2
8/28/2011		65	78	36	6	1	1
8/29/2011		65	78	37	6	1	2
8/30/2011		65	78	37	6	1	1
8/31/2011		65	78	37	6	1	1 8.5 min bt

Total

1124

37

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W356  
 Leeroy 01-25  
 St. Francis  
 St. Francis  
 None  
 September-11  
 FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
9/1/2011		66	79	37	6	1	1
9/2/2011		66	79	37	6	1	1
9/3/2011		65	78	37	6	1	1
9/4/2011		65	78	37	6	1	1
9/5/2011		64	77	37	6	1	1
9/6/2011		64	77	37	6	1	1
9/7/2011		66	79	37	6	1	1
9/8/2011		65	78	37	6	1	1 8 min bt
9/9/2011		65	78	37	6	1	1
9/10/2011		64	77	38	6	1	1
9/11/2011		66	79	37	6	1	1
9/12/2011		65	78	38	6	1	1
9/13/2011		64	77	37	6	1	1
9/14/2011		66	79	37	6	1	1 8 min bt
9/15/2011		64	77	37	6	1	1
9/16/2011		65	78	37	6	1	1
9/17/2011		64	77	37	6	1	1
9/18/2011		64	77	38	6	1	1
9/19/2011		65	78	38	6	1	1
9/20/2011		64	77	38	6	1	1 9 min bt
9/21/2011		64	77	38	6	1	1
9/22/2011		64	77	38	6	1	1
9/23/2011		65	78	38	6	1	1
9/24/2011		64	78	38	6	1	1
9/25/2011		64	77	38	6	1	1
9/26/2011		64	77	38	6	1	1
9/27/2011		62	75	38	6	1	1 8.5 min bt
9/28/2011		68	81	38	6	1	1
9/29/2011		61	74	38	6	1	1
9/30/2011		62	75	38	6	1	1
10/1/2011							

Total

1125

30

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