

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ESI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/21/2012

API No. 15
023-20607-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 2-24	
County Cheyenne	Location NE NE/4	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 5/4/2005		Plug Back Total Depth 1425'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1425'	Perforations 1202'	To 1236'
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) 1236'		Pressure Taps Flange		Gas Gravity - G _g .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-20 20 12 at 9:45 (AM) (PM)		Taken 8-21 20 12 at 10:00 (AM) (PM)			
Well on Line: Started 8-21 20 12 at 10:00 (AM) (PM)		Taken 8-22 20 12 at 10:45 (AM) (PM)			

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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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						111	125.4				
Flow						62	76.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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
						37		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207 : (P_o)² = _____

(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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 19 day of December, 20 12.

Witness (if any)

For Commission

Jannell Grew

For Company

Checked by

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Form G-2
(Rev. 7/03)

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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 Zweygardt 2-24 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: 12/19/12

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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Zweygardt 02-24

St. Francis

St. Francis

None

August-12

FloBoss

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012	67	80	40	8	4		10	
8/2/2012	60	73	36	8	4		10	3 min bt
8/3/2012	60	73	36	8	4		9	
8/4/2012	58	71	37	8	4		11	
8/5/2012	68	81	37	8	4		9	
8/6/2012	58	71	36	8	4		10	
8/7/2012	70	83	36	8	2		5	pu off no water
8/8/2012	62	75	34	8	0		0	
8/9/2012	60	73	34	8	2		5	
8/10/2012	75	88	34	8	4		9	
8/11/2012	61	74	32	8	4	1.5	10	bucket test 3 min
8/12/2012	62	75	35	8	4		11	
8/13/2012	58	71	35	8	4		10	
8/14/2012	60	73	35	8	4		10	3 min bt greased
8/15/2012	69	82	35	8	4		9	
8/16/2012	60	73	34	8	4		10	
8/17/2012	60	73	35	8	4		11	
8/18/2012	65	78	35	8	4		13	
8/19/2012	64	77	35	8	4		12	
8/20/2012	56	69	35	8	4		11	si for state test cp-66
8/21/2012	67	67	0	8	4	24	10	reopened cp-111
8/22/2012	62	75	45	8	4		9	3.25 min bt
8/23/2012	66	79	40	8	4		12	
8/24/2012	66	79	37	8	4		10	
8/25/2012	63	76	37	8	4		10	
8/26/2012	64	77	39	8	4		11	
8/27/2012	59	72	38	8	4		12	
8/28/2012	59	72	38	8	4		13	
8/29/2012	61	74	37	8	4		9	3.25 min bt
8/30/2012	60	73	37	8	4		11	
8/31/2012	59	72	37	8	4		13	

Total

1091

305

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Zweygardt 02-24

St. Francis

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None

September-12

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DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2012	60	73	37	8	4	9	
9/2/2012	62	75	37	8	4	10	
9/3/2012	60	73	37	8	4	9	3.25 min bt
9/4/2012	59	72	37	8	4	1	8
9/5/2012	75	88	37	8	4	9	
9/6/2012	75	88	37	8	2	10	pu off hfp
9/7/2012	109	122	5	8	0	19	0
9/8/2012	114	127	0	8	0	24	0
9/9/2012	117	130	0	8	0	24	0
9/10/2012	119	132	0	8	0	24	0
9/11/2012	121	134	0	8	0	24	0
9/12/2012	124	137	0	8	0	24	0
9/13/2012	112	125	6	8	0	10	0
9/14/2012	102	115	27	8	0	0	0
9/15/2012	95	108	40	8	0	0	0
9/16/2012	90	103	40	8	0	0	0
9/17/2012	82	95	43	8	0	0	0
9/18/2012	63	76	47	8	2	5	restart pu
9/19/2012	79	92	34	8	2	5	pu off hfp
9/20/2012	55	68	38	8	2	5	restart pu
9/21/2012	56	69	37	8	4	10	
9/22/2012	55	68	37	8	4	11	
9/23/2012	55	68	37	8	4	12	
9/24/2012	58	71	37	8	4	11	
9/25/2012	63	76	37	8	4	11	2.5 min bt
9/26/2012	64	77	37	8	4	12	
9/27/2012	70	83	34	8	4	9	3 min bt
9/28/2012	62	75	38	8	4	10	
9/29/2012	63	76	37	8	4	12	
9/30/2012	63	76	37	8	4	9	
10/1/2012							

Total

870

177

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Zweygardt 02-24

St. Francis

St. Francis

None

October-12

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DATE	Casing			HRS	Water	REMARKS
	PSI	STATIC	MCF			
10/1/2012	63	76	37	8	4	9
10/2/2012	62	75	37	8	4	11
10/3/2012	63	76	36	8	4	9 3 min bt
10/4/2012	60	73	38	8	4	10
10/5/2012	62	75	38	8	4	9
10/6/2012	62	75	38	8	4	8
10/7/2012	61	74	37	8	4	9
10/8/2012	61	74	38	8	4	9
10/9/2012	61	74	38	8	4	10
10/10/2012	63	76	36	8	4	9 3 min bt greased
10/11/2012	62	75	36	8	4	8
10/12/2012	62	75	36	8	4	11
10/13/2012	62	75	36	8	4	10
10/14/2012	65	78	34	8	4	13
10/15/2012	62	75	36	8	4	8
10/16/2012	66	79	34	8	4	1 9
10/17/2012	64	77	36	8	4	9 3 min bt
10/18/2012	61	74	36	8	4	7
10/19/2012	60	73	36	8	4	9
10/20/2012	62	75	36	8	4	8
10/21/2012	60	73	35	8	4	7
10/22/2012	62	75	36	8	4	8
10/23/2012	60	73	36	8	4	10
10/24/2012	61	74	36	8	4	8
10/25/2012	58	71	36	8	4	9 3 min bt
10/26/2012	60	73	36	8	4	10
10/27/2012	58	71	35	8	4	8
10/28/2012	58	71	36	8	4	9
10/29/2012	84	97	36	8	2	2 5 pu off hfp
10/30/2012	73	86	32	8	0	0
10/31/2012	60	73	37	8	2	5 restart pu

Total

1120

264