

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ESI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/20/2012

API No. 15
023-20565-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 1-24	
County Cheyenne	Location SWNE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-10-2004		Plug Back Total Depth 1368'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1411'	Perforations 1216'	To 1254'
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 <input type="radio"/> No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen Gas Gravity - G _g .6	
Vertical Depth(H) 1254'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 8-19	20 12 at 9:30	(AM)(PM) Taken	8-20	20 12 at 9:45 (AM)(PM)
Well on Line:	Started 8-20	20 12 at 9:45	(AM)(PM) Taken	8-21	20 12 at 10:30 (AM)(PM)

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OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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 _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						103	117.4				
Flow						66	80.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (F _v) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						38		

(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" 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, 2012.

Witness (if any)

Jannell Geuer
For Company

For Commission

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 1-24 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.

W384
 Zwegardt 01-24
 St. Francis
 St. Francis
 None
 August-12
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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE	Water DOWN BLS	REMARKS (Maximum length 110 characters)
8/1/2012		66	79	38	7.5	1	2	
8/2/2012		60	73	35	7.5	1	2	4.5 min bt
8/3/2012		59	72	38	7.5	1	1	
8/4/2012		58	71	38	7.5	1	1	
8/5/2012		67	80	38	7.5	1	2	
8/6/2012		58	71	38	7.5	1	1	
8/7/2012		68	81	36	7.5	1	2	3.5 min bt
8/8/2012		61	74	35	7.5	1	2	
8/9/2012		60	73	37	7.5	1	2	
8/10/2012		74	87	37	7.5	1	1	
8/11/2012		60	73	34	7.5	1	1.5	2
8/12/2012		61	74	39	7.5	1	1	
8/13/2012		57	70	39	7.5	1	2	
8/14/2012		59	72	38	7.5	1	1	5.25 min bt greased
8/15/2012		68	91	38	7.5	1	2	
8/16/2012		59	72	35	7.5	1	2	
8/17/2012		57	70	38	7.5	1	1	
8/18/2012		64	77	36	7.5	1	1	
8/19/2012		63	76	36	7.5	0.5		1 si for state test cp-64
8/20/2012		103	68	0	7.5	1	24	1 reopened cp-103
8/21/2012		66	79	40	7.5	1	1	
8/22/2012		61	74	41	7.5	1	2	4 min bt
8/23/2012		65	78	40	7.5	1	1	
8/24/2012		65	78	36	7.5	1	2	
8/25/2012		63	76	36	7.5	1	1	
8/26/2012		65	78	41	7.5	1	2	
8/27/2012		65	78	41	7.5	1	1	
8/28/2012		59	72	39	7.5	1	2	
8/29/2012		61	74	37	7.5	1	2	3.75 min bt
8/30/2012		59	72	37	7.5	1	1	
8/31/2012		59	72	37	7.5	1	2	

Total

1128

47

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Zweygardt 01-24

St. Francis

St. Francis

None

September-12

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	Water	REMARKS (Maximum length 110 characters)
	PSI	PSI							
9/1/2012		59	72	38	7.5	1		2	
9/2/2012		62	75	38	7.5	1		1	
9/3/2012		59	72	37	7.5	1		2	4 min bt
9/4/2012		59	72	38	7.5	1	1	2	
9/5/2012		75	88	33	7.5	1		3	
9/6/2012		75	88	39	7.5	1		2	pu off hfp
9/7/2012		103	116	5	7.5	0	19	0	
9/8/2012		106	119	0	7.5	0	24	0	
9/9/2012		108	121	0	7.5	0	24	0	
9/10/2012		110	123	0	7.5	0	24	0	
9/11/2012		111	124	0	7.5	0	24	0	
9/12/2012		113	126	0	7.5	0	24	0	
9/13/2012		111	124	0	7.5	0	10	0	
9/14/2012		102	115	15	7.5	0		0	
9/15/2012		95	108	36	7.5	0		0	
9/16/2012		90	103	39	7.5	0		0	
9/17/2012		81	94	44	7.5	0		0	
9/18/2012		63	76	56	7.5	1		1	restart pu
9/19/2012		78	91	40	7.5	1		1	pu off hfp
9/20/2012		55	68	50	7.5	1		1	restart pu
9/21/2012		56	69	46	7.5	1		2	
9/22/2012		55	68	45	7.5	1		1	
9/23/2012		55	68	44	7.5	1		2	
9/24/2012		58	71	43	7.5	1		2	
9/25/2012		62	75	39	7.5	1		2	
9/26/2012		63	76	41	7.5	1		2	4.75 min bt
9/27/2012		70	83	36	7.5	1		1	
9/28/2012		62	75	42	7.5	1		1	
9/29/2012		62	75	41	7.5	1		1	
9/30/2012		62	75	41	7.5	1		2	
10/1/2012									

Total

926

31

W384
 Zwegardt 01-24
 St. Francis
 St. Francis
 None
 October-12
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DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
10/1/2012	62	75	41	7.5	1	2		
10/2/2012	62	75	41	7.5	1	1		
10/3/2012	63	76	38	7.5	1	1	4.75 min bt	
10/4/2012	60	73	41	7.5	1	1		
10/5/2012	60	73	41	7.5	1	1		
10/6/2012	61	74	41	7.5	1	2		
10/7/2012	60	73	40	7.5	1	1		
10/8/2012	61	74	40	7.5	1	1		
10/9/2012	63	76	40	7.5	1	2		
10/10/2012	62	75	38	7.5	1	2	3.5 min bt greased	
10/11/2012	62	75	38	7.5	1	2		
10/12/2012	61	74	38	7.5	1	1		
10/13/2012	62	75	38	7.5	1	1		
10/14/2012	64	77	36	7.5	1	1		
10/15/2012	62	75	39	7.5	1	2		
10/16/2012	80	93	36	7.5	1	1		
10/17/2012	62	75	39	7.5	1	1	6 min bt	
10/18/2012	60	73	39	7.5	1	2		
10/19/2012	60	73	39	7.5	1	1		
10/20/2012	63	76	39	7.5	1	2		
10/21/2012	65	78	37	7.5	1	1		
10/22/2012	61	74	38	7.5	1	2		
10/23/2012	60	73	38	7.5	1	2		
10/24/2012	60	73	38	7.5	1	1		
10/25/2012	57	70	39	7.5	1	2	4 min bt	
10/26/2012	59	72	38	7.5	1	1		
10/27/2012	58	71	38	7.5	1	2		
10/28/2012	58	71	39	7.5	1	2		
10/29/2012	84	97	39	7.5	1	2		
10/30/2012	73	86	29	7.5	0	0	1 pu off hfp	
10/31/2012	59	72	40	7.5	1	1	restart pu	

Total

1195

43