

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/6/2013

API No. 15
023-21257-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 22-19	
County Cheyenne	Location SENW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 11/11/10		Plug Back Total Depth 1475'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1513'	Perforations 1296'	To 1326'
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 type="checkbox"/> No <input checked="" type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6	
Vertical Depth(H) 1525'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-5		20 13	at 5:00	(AM) (PM) Taken 6-6	20 13
Well on Line: Started 6-6		20 13	at 5:15	(AM) (PM) Taken 6-7	20 13
					at 5:15 (AM) (PM)
					at 5:30 (AM) (PM)

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						143	157.4				
Flow						102	116.4			24	

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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						35		

(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 _a) ² = 0.207	(P _d) 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" ----- 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 12th day of November, 20 13.

KCG WIP 21

MAR 17 2014 *Jannell Martiney*
For Company

Witness (if any)

For Commission

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Checked by

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 22-19 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: 11/21/13

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Signature: *Dannell 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.

W2739
 Zweygardt 22-19
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	107	120		44	
6/2/2013	105	118		43	
6/3/2013	104	117		42	
6/4/2013	102	115		42	
6/5/2013	55	68		42	si for state test - cp 104
6/6/2013	121	135		0	24 reopened - cp 143
6/7/2013	108	121		44	
6/8/2013	105	118		44	
6/9/2013	104	117		42	
6/10/2013	109	122		41	2
6/11/2013	108	121		37	1
6/12/2013	109	122		37	
6/13/2013	104	117		39	
6/14/2013	103	116		39	
6/15/2013	102	115		39	
6/16/2013	102	115		39	
6/17/2013	100	113		38	
6/18/2013	96	109		38	
6/19/2013	93	106		38	
6/20/2013	96	109		38	
6/21/2013	98	101		37	
6/22/2013	106	119		37	
6/23/2013	109	122		36	
6/24/2013	108	121		35	
6/25/2013	109	122		35	
6/26/2013	109	122		35	
6/27/2013	102	115		36	
6/28/2013	95	108		37	
6/29/2013	94	107		37	
6/30/2013	93	106		37	
7/1/2013					

Total

1128

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DEC 26 2013

CONSERVATION DIVISION
 WICHITA KS

W2739
 Zweygartd 22-19
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	94	107		37	
7/2/2013	94	107		37	
7/3/2013	94	107		36	
7/4/2013	95	108		36	
7/5/2013	95	108		36	
7/6/2013	95	108		36	
7/7/2013	101	114		36	
7/8/2013	100	113		36	
7/9/2013	100	113		36	
7/10/2013	96	109		36	
7/11/2013	98	111		36	
7/12/2013	103	126		36	
7/13/2013	109	122		33	2.5
7/14/2013	108	121		36	
7/15/2013	94	107		36	
7/16/2013	92	105		36	
7/17/2013	89	102		35	
7/18/2013	108	121		35	
7/19/2013	102	115		35	
7/20/2013	104	117		35	
7/21/2013	104	117		35	
7/22/2013	101	114		35	
7/23/2013	98	111		35	
7/24/2013	103	116		35	
7/25/2013	106	119		34	
7/26/2013	98	111		34	
7/27/2013	94	103		34	
7/28/2013	92	105		33	
7/29/2013	91	104		34	
7/30/2013	101	114		34	3.5
7/31/2013	120	133		28	5.5

Total

1086

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 CONSERVATION DIVISION
 WICHITA, KS

W2739
 Zweygart 22-19
 St. Francis
 St. Francis
 Flow
 August-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2013	109	122	33		
8/2/2013	102	115	33		
8/3/2013	98	111	32		
8/4/2013	97	110	32		
8/5/2013	94	107	32		
8/6/2013	86	99	32		
8/7/2013	83	96	32		
8/8/2013	85	98	32		
8/9/2013	88	101	32		
8/10/2013	87	100	32		
8/11/2013	86	99	31		
8/12/2013	85	98	32		
8/13/2013	85	98	32		
8/14/2013	86	99	31		
8/15/2013	87	90	31	0.5	
8/16/2013	94	107	31		
8/17/2013	93	106	31		
8/18/2013	93	106	31		
8/19/2013	94	107	31	1.5	
8/20/2013	111	124	31	1	
8/21/2013	109	122	31		
8/22/2013	90	103	31	5	
8/23/2013	98	111	31		
8/24/2013	104	117	31	1	
8/25/2013	109	122	31	1	
8/26/2013	89	102	31		
8/27/2013	84	97	31		
8/28/2013	83	96	31		
8/29/2013	106	119	31	1	
8/30/2013	108	121	30		
8/31/2013	109	122	30		

Total

973

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