

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **KSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
5/22/2013

API No. 15
023-21256-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 14-19	
County Cheyenne	Location SWSW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/16/2010		Plug Back Total Depth 1500'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1539'	Perforations 1314'	To 1344'
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 checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1550'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 5-21 20 13 at 5:40 (AM) (PM) Taken 5-22 20 13 at 5:55 (AM) (PM)		Well on Line: Started 5-22 20 13 at 5:55 (AM) (PM) Taken 5-23 20 13 at 6:20 (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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						228	242.4				
Flow						81	95.4			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
						22		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² =

(P_e)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _e) ² - (P _a) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _a ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1, or 2, and divide by: $P_e^2 - P_w^2$	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 21 day of November, 20 13.

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Arnold Matney
For Company

Witness (if any)

For Commission

DEC 26 2013

Checked by

CONSERVATION DIVISION
WICHITA, KS

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 14-19 gas well on the grounds that said well:

(Check one)

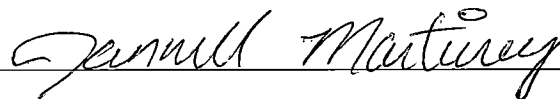
- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

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: _____



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Title: Production Assistant

CONSERVATION DIVISION
WICHITA, KS

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.

W2741
 Zweygardt 14-19
 St. Francis
 St. Francis
 Flow
 May-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2013	80	93		22	
5/2/2013	85	98		22	
5/3/2013	85	98		22	
5/4/2013	78	91		22	
5/5/2013	80	93		22	
5/6/2013	77	90		22	
5/7/2013	79	92		22	
5/8/2013	81	94		22	
5/9/2013	83	96		22	
5/10/2013	83	96		22	
5/11/2013	84	97		22	
5/12/2013	84	97		22	
5/13/2013	85	98		22	
5/14/2013	86	99		22	
5/15/2013	96	109		22	2.5
5/16/2013	96	109		18	
5/17/2013	85	98		24	
5/18/2013	80	93		22	
5/19/2013	88	101		22	
5/20/2013	86	99		22	
5/21/2013	65	78		22	si for state test - cp 73
5/22/2013	99	112		0	24 reopened - cp 228
5/23/2013	162	175		8	10
5/24/2013	105	118		0	4
5/25/2013	98	111		0	
5/26/2013	98	111		12	
5/27/2013	98	111		17	
5/28/2013	96	109		24	
5/29/2013	96	109		24	
5/30/2013	94	107		24	
5/31/2013	94	107		24	

Total

593

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W2741
 Zwegardt 14-19
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	82	95		27	
6/2/2013	83	96		24	
6/3/2013	79	92		24	
6/4/2013	78	91		24	
6/5/2013	81	94		23	
6/6/2013	86	99		23	
6/7/2013	82	95		23	
6/8/2013	77	90		23	
6/9/2013	81	94		23	
6/10/2013	92	105		23	2
6/11/2013	96	109		20	1
6/12/2013	95	108		20	
6/13/2013	81	94		24	
6/14/2013	81	94		22	
6/15/2013	83	96		22	
6/16/2013	84	97		22	
6/17/2013	80	93		22	
6/18/2013	77	90		22	
6/19/2013	73	86		22	
6/20/2013	76	89		22	
6/21/2013	80	93		22	
6/22/2013	91	104		22	
6/23/2013	95	108		20	
6/24/2013	94	107		21	
6/25/2013	97	110		21	
6/26/2013	96	109		21	
6/27/2013	84	97		21	
6/28/2013	77	91		23	
6/29/2013	78	91		22	
6/30/2013	75	88		21	
7/1/2013					

Total

669

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W2741
 Zweygartd 14-19
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	78	91		22	
7/2/2013	77	90		22	
7/3/2013	77	90		22	
7/4/2013	78	91		22	
7/5/2013	78	91		22	
7/6/2013	80	93		22	
7/7/2013	87	100		22	
7/8/2013	86	99		21	
7/9/2013	85	98		21	
7/10/2013	81	94		21	
7/11/2013	85	98		21	
7/12/2013	89	102		21	
7/13/2013	96	109		18	2.5
7/14/2013	95	108		22	
7/15/2013	80	93		23	
7/16/2013	76	89		21	
7/17/2013	74	87		20	
7/18/2013	93	106		19	
7/19/2013	89	102		19	
7/20/2013	90	103		19	
7/21/2013	90	103		19	
7/22/2013	89	102		19	
7/23/2013	85	98		19	
7/24/2013	90	103		19	
7/25/2013	93	106		19	
7/26/2013	86	99		20	
7/27/2013	78	91		20	
7/28/2013	79	92		19	
7/29/2013	77	90		19	
7/30/2013	78	91		19	3.5
7/31/2013	117	130		8	5.5

Total 620

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