

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

ASI

(See Instructions on Reverse Side)

Test Date:
5/23/2013

API No. 15
023-21258-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 23-19	
County Cheyenne	Location NESW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 9/14/2010		Plug Back Total Depth 1475'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1514'	Perforations 1316'	To 1346'
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) 1530'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-22 20 13 at 6:15 (AM) (PM) Taken 5-23 20 13 at 6:35 (AM) (PM)					
Well on Line: Started 5-23 20 13 at 6:35 (AM) (PM) Taken 5-24 20 13 at 6:50 (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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 _e)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						223	237.4				
Flow						59	73.4			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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						15		

(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 _o) ² - (P _a) ² or (P _o) ² - (P _w) ²	(P _o) 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 (Mcf/d)

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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Samuel Martiny
For Company

Witness (if any)

DEC 26 2013

For Commission

CONSERVATION DIVISION
WICHITA, KS

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 23-19 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: _____

Jannell Martinez

DEC 26 2013

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.

W2740
 Zweygartd 23-19
 St. Francis
 St. Francis
 Flow
 May-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2013	61	74		15	
5/2/2013	65	78		15	
5/3/2013	63	76		14	
5/4/2013	59	72		15	
5/5/2013	55	68		15	
5/6/2013	52	65		15	
5/7/2013	57	70		15	
5/8/2013	57	70		15	
5/9/2013	64	77		15	
5/10/2013	72	85		15	
5/11/2013	63	76		15	
5/12/2013	63	76		15	
5/13/2013	66	79		15	
5/14/2013	67	80		15	
5/15/2013	96	109		15	2.5
5/16/2013	78	91		14	
5/17/2013	63	76		16	
5/18/2013	57	70		15	
5/19/2013	66	79		15	
5/20/2013	61	74		15	
5/21/2013	66	79		15	
5/22/2013	81	94		15	14 si for state test - cp 58
5/23/2013	164	177		0	24 reopened - cp 223
5/24/2013	105	118		22	4
5/25/2013	94	107		17	
5/26/2013	89	102		17	
5/27/2013	86	99		15	
5/28/2013	76	89		15	
5/29/2013	67	80		15	
5/30/2013	56	69		15	
5/31/2013	57	70		15	

Total

460

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W2740
 Zwegardt 23-19
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	49	62		15	
6/2/2013	52	65		14	
6/3/2013	51	64		15	
6/4/2013	49	62		15	
6/5/2013	54	67		14	
6/6/2013	62	75		14	
6/7/2013	58	71		14	
6/8/2013	54	67		14	
6/9/2013	57	70		14	
6/10/2013	88	101		14	2
6/11/2013	76	89		14	1
6/12/2013	76	89		14	
6/13/2013	58	71		14	
6/14/2013	58	71		15	
6/15/2013	62	75		15	
6/16/2013	62	75		15	
6/17/2013	59	72		15	
6/18/2013	54	67		14	
6/19/2013	50	63		14	
6/20/2013	56	69		14	
6/21/2013	63	76		14	
6/22/2013	77	90		14	
6/23/2013	81	94		14	
6/24/2013	78	91		14	
6/25/2013	83	96		14	
6/26/2013	80	93		14	
6/27/2013	72	85		14	
6/28/2013	54	67		14	
6/29/2013	54	67		14	
6/30/2013	53	66		14	
7/1/2013					

Total

427

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W2740
 Zweygardt 23-19
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	56	69		14	
7/2/2013	59	72		14	
7/3/2013	55	68		14	
7/4/2013	58	71		14	
7/5/2013	58	71		14	
7/6/2013	61	74		14	
7/7/2013	69	82		14	
7/8/2013	68	81		14	
7/9/2013	65	78		14	
7/10/2013	63	76		14	
7/11/2013	66	79		14	
7/12/2013	72	85		14	
7/13/2013	79	92		14	2.5
7/14/2013	77	90		14	
7/15/2013	58	71		14	
7/16/2013	56	69		14	
7/17/2013	54	67		14	
7/18/2013	81	94		12	
7/19/2013	73	86		12	
7/20/2013	74	87		12	
7/21/2013	76	89		12	
7/22/2013	71	84		12	
7/23/2013	69	82		12	
7/24/2013	77	90		12	
7/25/2013	79	92		12	
7/26/2013	68	81		12	
7/27/2013	58	71		12	
7/28/2013	60	73		12	
7/29/2013	58	71		12	
7/30/2013	94	107		12	3.5
7/31/2013	117	130		11	5.5

Total 405

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