

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/2013

API No. 15
023-21262-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 31-24	
County Cheyenne	Location NWNE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/12/2010		Plug Back Total Depth 1416'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1456'	Perforations 1192'	To 1222'
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"/> flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1470'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-21 20 13 at 5:45 (AM) (PM) Taken 6-22 20 13 at 6:00 (AM) (PM)		Well on Line: Started 6-22 20 13 at 6:00 (AM) (PM) Taken 6-23 20 13 at 6:25 (AM) (PM)			

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						214	228.4				
Flow						60	74.4			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
						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_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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 21 day of November, 20 13.

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Witness (if any) _____ For Company Samuel Martiney

DEC 26 2013

For Commission _____ 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 31-24 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: 11/21/13

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Signature: *Jannell Martens*

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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.

W2743
 Zweygart 31-24
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	50	63		15	
6/2/2013	55	68		14	
6/3/2013	54	67		15	
6/4/2013	54	67		15	
6/5/2013	55	68		15	
6/6/2013	63	76		15	
6/7/2013	60	73		15	
6/8/2013	55	68		15	
6/9/2013	59	72		15	
6/10/2013	91	104		15	2
6/11/2013	79	92		13	1
6/12/2013	77	90		13	
6/13/2013	60	73		13	
6/14/2013	60	73		14	
6/15/2013	64	77		14	
6/16/2013	64	77		14	
6/17/2013	60	73		14	
6/18/2013	56	69		14	
6/19/2013	53	66		14	
6/20/2013	59	72		14	
6/21/2013	59	72		14	si for state test - cp 60
6/22/2013	139	152		0	24 reopened - cp 214
6/23/2013	85	98		23	
6/24/2013	82	95		16	
6/25/2013	84	97		15	
6/26/2013	83	96		15	
6/27/2013	76	86		14	
6/28/2013	58	72		14	
6/29/2013	59	72		15	
6/30/2013	60	73		15	
7/1/2013					

Total

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 WICHITA, KS

W2743
 Zwegardt 31-24
 St. Francis
 St. Francis
 Flow
 July-13
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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	58	71		15	
7/2/2013	60	73		15	
7/3/2013	58	71		14	
7/4/2013	63	76		14	
7/5/2013	63	76		14	
7/6/2013	60	73		14	
7/7/2013	72	85		14	
7/8/2013	69	82		14	
7/9/2013	69	82		14	
7/10/2013	66	79		14	
7/11/2013	69	82		14	
7/12/2013	74	87		13	
7/13/2013	81	94		13	2.5
7/14/2013	79	92		14	
7/15/2013	61	74		13	
7/16/2013	57	70		13	
7/17/2013	55	68		14	
7/18/2013	83	96		14	
7/19/2013	75	88		14	
7/20/2013	76	89		14	
7/21/2013	78	91		14	
7/22/2013	74	87		14	
7/23/2013	71	84		14	
7/24/2013	78	91		14	
7/25/2013	81	94		13	
7/26/2013	69	82		13	
7/27/2013	58	71		13	
7/28/2013	59	72		14	
7/29/2013	57	70		13	
7/30/2013	94	107		13	3.5
7/31/2013	118	130		12	5.5

Total

425

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CONSERVATION DIVISION
 WICHITA KS

W2743
 Zwegardt 31-24
 St. Francis
 St. Francis
 Flow
 August-13
 FloBoss

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
8/1/2013	79	92		13	
8/2/2013	79	92		13	
8/3/2013	75	88		13	
8/4/2013	76	89		13	
8/5/2013	68	81		13	
8/6/2013	58	71		13	
8/7/2013	54	67		13	
8/8/2013	56	69		13	
8/9/2013	60	73		13	
8/10/2013	58	71		13	
8/11/2013	55	68		13	
8/12/2013	55	68		13	
8/13/2013	56	69		13	
8/14/2013	55	68		13	
8/15/2013	56	69		13	0.5
8/16/2013	66	79		13	
8/17/2013	66	79		13	
8/18/2013	67	80		13	
8/19/2013	69	82		13	1.5
8/20/2013	91	104		13	1
8/21/2013	87	100		13	
8/22/2013	91	104		13	5
8/23/2013	74	87		13	
8/24/2013	85	98		13	1
8/25/2013	89	102		13	1
8/26/2013	59	72		13	
8/27/2013	55	68		13	
8/28/2013	52	65		13	
8/29/2013	97	110		13	
8/30/2013	88	101		13	
8/31/2013	89	102		13	

Total

403

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