

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow Deliverability

SI

(See Instructions on Reverse Side)

Test Date:
6/9/2013

API No. 15
023-21251-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 43-24	
County Cheyenne	Location NESE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/27/2010		Plug Back Total Depth 1507'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1547'	Perforations 1320'	To 1350'
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) 1560'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-8 20 13 at 5:30 (AM) (PM) Taken 6-9 20 13 at 5:45 (AM) (PM)		Well on Line: Started 6-9 20 13 at 5:45 (AM) (PM) Taken 6-10 20 13 at 6:10 (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 ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						155	169.4				
Flow						75	89.4			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
						18		

(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 the _____ day of November, 2013.

KANSAS CORPORATION COMMISSION

DEC 26 2013

Donnell Martiney
For Company

Witness (if any)

CONSERVATION DIVISION
WICHITA KS

For Commission

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 43-24 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

RECEIVED Signature: Jennell Martiney
KANSAS CORPORATION COMMISSION
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.

W2732
 Zweygardt 43-24
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	72	85		19	
6/2/2013	76	89		19	
6/3/2013	73	86		19	
6/4/2013	71	84		19	
6/5/2013	76	89		19	
6/6/2013	82	95		19	
6/7/2013	78	91		19	
6/8/2013	74	87		19	si for state test - cp 75
6/9/2013	126	139		0	24 reopened - cp 155
6/10/2013	100	113		28	3
6/11/2013	93	106		18	1
6/12/2013	91	104		18	
6/13/2013	77	90		18	
6/14/2013	77	90		18	
6/15/2013	80	93		18	
6/16/2013	80	93		18	
6/17/2013	77	90		18	
6/18/2013	73	86		18	
6/19/2013	69	82		18	
6/20/2013	73	86		18	
6/21/2013	77	90		17	
6/22/2013	90	103		17	
6/23/2013	95	108		17	
6/24/2013	92	105		17	
6/25/2013	95	108		17	
6/26/2013	94	107		17	
6/27/2013	83	96		17	
6/28/2013	72	85		17	
6/29/2013	73	86		17	
6/30/2013	72	85		17	
7/1/2013					

Total

530

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CONSERVATION DIVISION
 WICHITA, KS

W2732
 Zweygardt 43-24
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	74	87		17	
7/2/2013	75	88		17	
7/3/2013	74	87		17	
7/4/2013	76	89		17	
7/5/2013	76	89		17	
7/6/2013	75	88		17	
7/7/2013	84	97		16	
7/8/2013	83	96		16	
7/9/2013	82	95		16	
7/10/2013	78	91		16	
7/11/2013	81	94		16	
7/12/2013	69	82		15	
7/13/2013	90	103		16	2.5
7/14/2013	91	104		16	
7/15/2013	75	88		18	
7/16/2013	73	86		18	
7/17/2013	70	83		20	
7/18/2013	95	108		20	
7/19/2013	87	100		20	
7/20/2013	88	101		20	
7/21/2013	90	103		20	
7/22/2013	86	99		20	
7/23/2013	83	96		20	
7/24/2013	89	102		20	
7/25/2013	92	105		20	
7/26/2013	83	96		20	
7/27/2013	74	87		20	
7/28/2013	75	88		20	
7/29/2013	74	87		20	
7/30/2013	93	106		20	3.5
7/31/2013	118	131		18	5.5

Total

563

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CONSERVATION DIVISION
 WICHITA KS

W2732
 Zweygardt 43-24
 St. Francis
 St. Francis
 Flow
 August-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2013	93	106		21	
8/2/2013	92	105		21	
8/3/2013	87	100		20	
8/4/2013	87	100		20	
8/5/2013	82	95		20	
8/6/2013	74	87		20	
8/7/2013	70	83		20	
8/8/2013	72	85		20	
8/9/2013	75	88		20	
8/10/2013	74	87		20	
8/11/2013	72	85		20	
8/12/2013	72	85		20	
8/13/2013	72	85		20	
8/14/2013	72	85		20	
8/15/2013	73	86		20	0.5
8/16/2013	81	94		20	
8/17/2013	81	94		20	
8/18/2013	81	94		19	
8/19/2013	82	95		19	1.5
8/20/2013	102	115		18	1
8/21/2013	99	112		18	
8/22/2013	103	116		18	5
8/23/2013	87	100		20	
8/24/2013	95	108		20	1
8/25/2013	100	113		18	1
8/26/2013	75	88		18	
8/27/2013	71	84		18	
8/28/2013	69	82		18	
8/29/2013	97	110		18	1
8/30/2013	98	111		18	
8/31/2013	99	112		18	

Total 600

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 WICHITA, KS