

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **SE**
 Deliverability

Test Date:
6/22/14

API No. 15
023-21074-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 44-10	
County Cheyenne	Location SESE	Section 10	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/19/2008		Plug Back Total Depth 1618'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1618'	Perforations 1386'	To 1416'
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) 5360'		Pressure Taps Flange		Gas Gravity - G _g .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14 at 4:15		(AM) (PM) Taken 6-19	
Well on Line: Started 6-22		20 14 at 4:30		(AM) (PM) Taken 6-23	
		20 14 at 4:30		(AM) (PM) Taken 6-23	
		20 14 at 5:15		(AM) (PM) Taken 6-23	

OBSERVED SURFACE DATA

Duration of Shut-in **360** 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 _o)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _o)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						159	173.4				
Flow						50	64.4			360	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						16		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_o)² = 0.207
(P_d)² =

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

(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: P _c 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 12 day of December, 20 14.

KANSAS CORPORATION COMMISSION

Witness (if any)

FEB 25 2015

Samuel Matney
For Company

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 44-10 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: 12/12/14

Received
KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Arnold Mastney*
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.

W2602

Zweygardt 44-10

St. Francis

St. Francis

None

June-13~~4~~

FloBoss

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
6/1/2013	52	65		18	0	
6/2/2013	57	70		17	0	
6/3/2013	71	84		17	0	
6/4/2013	64	77		17	0	
6/5/2013	47	60		17	0	
6/6/2013	49	62		17	0	
6/7/2013	136	149		9	9	
6/8/2013	151	164		0	24	
6/9/2013	152	165		0	24	
6/10/2013	154	167		0	24	
6/11/2013	154	167		0	24	
6/12/2013	156	169		0	24	
6/13/2013	157	170		0	24	
6/14/2013	157	170		0	24	
6/15/2013	156	169		0	24	
6/16/2013	156	169		0	24	
6/17/2013	158	171		0	24	
6/18/2013	158	171		0	24	
6/19/2013	159	172		0	24	
6/20/2013	159	172		0	24	
6/21/2013	159	172		0	24	
6/22/2013	159	172		0	24	
6/23/2013	119	132		30	5	
6/24/2013	109	122		24	0	
6/25/2013	102	115		21	0	
6/26/2013	90	103		21	0	
6/27/2013	83	96		19	0	
6/28/2013	63	76		19	0	
6/29/2013	51	64		18	0	
6/30/2013	52	65		18	0	
7/1/2013					0	

Total

282

Received
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FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

W2602
 Zweygardt 44-10
 St. Francis
 St. Francis
 None
 July-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	52	65		18	0
7/2/2014	52	65		17	0
7/3/2014	53	66		17	0
7/4/2014	53	66		17	0
7/5/2014	53	66		17	0
7/6/2014	54	67		17	0
7/7/2014	54	67		17	0
7/8/2014	55	68		17	0
7/9/2014	56	68		10	0
7/10/2014	58	71		17	0
7/11/2014	58	71		17	0
7/12/2014	58	71		17	0
7/13/2014	59	72		16	0
7/14/2014	82	95		16	0
7/15/2014	48	61		17	0
7/16/2014	48	61		16	0
7/17/2014	49	62		16	0
7/18/2014	50	63		16	0
7/19/2014	47	60		16	0
7/20/2014	48	61		16	0
7/21/2014	134	147		16	0
7/22/2014	136	149		3	22
7/23/2014	60	73		18	7
7/24/2014	56	68		18	3
7/25/2014	48	61		15	4
7/26/2014	47	60		16	0
7/27/2014	48	61		16	0
7/28/2014	50	63		16	0
7/29/2014	49	62		15	0
7/30/2014	50	63		15	0
7/31/2014	51	61		15	0

Total 490

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 WICHITA, KS

W2602

Zweygardt 44-10

St. Francis

St. Francis

None

August-14

FloBoss

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
8/1/2014	50	63		15	0	
8/2/2014	50	63		15	0	
8/3/2014	50	63		15	0	
8/4/2014	50	63		15	0	
8/5/2014	51	64		15	0	
8/6/2014	52	65		15	0	
8/7/2014	52	65		15	0	
8/8/2014	52	65		15	0	
8/9/2014	54	67		15	0	
8/10/2014	55	68		15	0	
8/11/2014	57	70		15	0	
8/12/2014	49	62		15	0	
8/13/2014	50	63		15	0	
8/14/2014	50	63		15	0	
8/15/2014	55	68		15	3	
8/16/2014	54	67		15	0	
8/17/2014	55	68		15	0	
8/18/2014	55	68		15	0	
8/19/2014	63	76		15	2	
8/20/2014	53	66		15	0	
8/21/2014	52	65		15	0	
8/22/2014	52	65		15	0	
8/23/2014	48	61		15	0	
8/24/2014	50	63		15	0	
8/25/2014	68	81		14	0	
8/26/2014	52	65		15	0	
8/27/2014	52	65		15	0	
8/28/2014	97	110		15	0	
8/29/2014	47	60		15	5	
8/30/2014	48	61		15	0	
8/31/2014	62	75		15	0	

Total

464

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FEB 25 2015

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WICHITA, KS