

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **AST**
 Deliverability

Test Date:
6/8/2013

API No. 15
023-21260-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 11-19	
County Cheyenne	Location NWNW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/23/2010		Plug Back Total Depth 1418'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1454'	Perforations 1252'	To 1282'
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	
Vertical Depth(H) 1464'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7 20 13 at 5:25 (AM)(PM) Taken 6-8 20 13 at 5:40 (AM)(PM)		Well on Line: Started 6-8 20 13 at 5:40 (AM)(PM) Taken 6-9 20 13 at 5:55 (AM)(PM)		Gas Gravity - G _g .6	

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 _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						204	218.4				
Flow						90	104.4			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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						16		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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.

KANSAS CORPORATION COMMISSION

Witness (if any)

DEC 26 2013

For Company

For Commission

CONSERVATION DIVISION
WICHITA KS

Checked by

Jannul Martinez
For Company

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 11-19 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 Martiney

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.

W2730
 Zweygardt 11-19
 St. Francis
 St. Francis
 Flow
 June-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	92	105		18	
6/2/2013	94	107		17	
6/3/2013	91	104		18	
6/4/2013	89	102		18	
6/5/2013	93	106		17	
6/6/2013	97	110		17	
6/7/2013	58	71		17	si for state test - cp 92
6/8/2013	53	66		0	24 reopened - cp 204
6/9/2013	115	128		18	
6/10/2013	111	124		21	2
6/11/2013	106	119		17	1
6/12/2013	104	117		17	
6/13/2013	93	106		17	
6/14/2013	91	104		17	
6/15/2013	94	104		17	
6/16/2013	95	108		17	
6/17/2013	92	105		17	
6/18/2013	88	101		17	
6/19/2013	85	98		17	
6/20/2013	88	101		17	
6/21/2013	90	103		17	
6/22/2013	102	115		16	
6/23/2013	106	119		16	
6/24/2013	104	117		16	
6/25/2013	106	119		16	
6/26/2013	105	118		16	
6/27/2013	95	108		16	
6/28/2013	88	101		16	
6/29/2013	87	100		16	
6/30/2013	77	90		16	
7/1/2013					

Total

492

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 WICHITA, KS

W2730
 Zweygartd 11-19
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	88	101		16	
7/2/2013	89	102		16	
7/3/2013	89	102		16	
7/4/2013	90	103		16	
7/5/2013	89	102		16	
7/6/2013	90	103		16	
7/7/2013	97	110		16	
7/8/2013	95	108		16	
7/9/2013	95	108		16	
7/10/2013	92	105		16	
7/11/2013	94	107		16	
7/12/2013	100	113		16	
7/13/2013	103	126		16	2.5
7/14/2013	80	93		16	
7/15/2013	90	103		16	
7/16/2013	90	103		16	
7/17/2013	89	102		16	
7/18/2013	86	99		16	
7/19/2013	107	120		16	
7/20/2013	100	113		16	
7/21/2013	101	114		16	
7/22/2013	102	115		16	
7/23/2013	100	113		16	
7/24/2013	96	109		16	
7/25/2013	101	114		16	
7/26/2013	104	117		16	
7/27/2013	96	109		16	
7/28/2013	89	102		16	
7/29/2013	90	103		16	
7/30/2013	100	113		16	3.5
7/31/2013	121	134		12	5.5

Total

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 WICHITA, KS

W2730
 Zwegardt 11-19
 St. Francis
 St. Francis
 Flow
 August-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2013	114	127		16	
8/2/2013	105	118		17	
8/3/2013	100	113		16	
8/4/2013	100	113		16	
8/5/2013	96	109		16	
8/6/2013	89	102		16	
8/7/2013	85	98		16	
8/8/2013	88	101		16	
8/9/2013	90	103		16	
8/10/2013	88	101		16	
8/11/2013	87	90		16	
8/12/2013	87	100		16	
8/13/2013	87	100		16	
8/14/2013	87	100		16	
8/15/2013	87	90		16	0.5
8/16/2013	94	107		16	
8/17/2013	94	107		16	
8/18/2013	94	107		16	
8/19/2013	96	109		16	1.5
8/20/2013	112	125		16	1
8/21/2013	110	123		16	
8/22/2013	116	129		16	5
8/23/2013	101	114		16	
8/24/2013	106	119		16	1
8/25/2013	111	124		16	1
8/26/2013	91	104		16	
8/27/2013	86	99		16	
8/28/2013	84	97		16	
8/29/2013	108	121		16	1
8/30/2013	109	122		16	
8/31/2013	110	123		16	

Total

497

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