

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/20/2012

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 checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1530'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 7-19 20 12 at 6:15 (AM) <input checked="" type="checkbox"/> (PM)		Taken 7-20 20 12 at 6:35 (AM) <input checked="" type="checkbox"/> (PM)			
Well on Line: Started 7-20 20 12 at 6:35 (AM) <input checked="" type="checkbox"/> (PM)		Taken 7-21 20 12 at 6:50 (AM) <input checked="" type="checkbox"/> (PM)			

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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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						225	239.4				
Flow						69	83.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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
						17		

(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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 19 day of December, 20 12.

Witness (if any)

For Commission

Samuel Grew
For Company

Checked by

KCC WICHITA

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: 12/19/12

Signature: 

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.

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W2740

Zweygartd 23-19

St. Francis

St. Francis

Flow

July-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2012		70	83	17				
7/2/2012		62	75	17			3	
7/3/2012		77	90	16				
7/4/2012		61	74	17				
7/5/2012		59	72	17				
7/6/2012		89	102	17			1	
7/7/2012		61	74	17				
7/8/2012		66	79	17				
7/9/2012		64	77	17				
7/10/2012		63	76	16				
7/11/2012		60	74	16				
7/12/2012		68	81	16				
7/13/2012		61	74	16				
7/14/2012		62	65	16				
7/15/2012		61	74	16				
7/16/2012		75	88	16			1.5	
7/17/2012		64	77	16				
7/18/2012		73	86	16				
7/19/2012		68	81	16			0.5	cp 67 si for state test
7/20/2012		68 205	155	0			24	cp225 opened
7/21/2012		69	82	26				
7/22/2012		65	78	18				
7/23/2012		71	84	18			0.5	
7/24/2012		72	85	17				
7/25/2012		74	87	17				
7/26/2012		71	84	17				
7/27/2012		85	98	15			5	
7/28/2012		71	84	17				
7/29/2012		61	74	17				
7/30/2012		59	72	17				
7/31/2012		58	71	17				

Total

508

0

W2740
 Zwegardt 23-19
 St. Francis
 St. Francis
 Flow
 August-12
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DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLEDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
8/1/2012		69	82	17			
8/2/2012		63	76	17			
8/3/2012		62	75	17			
8/4/2012		60	73	17			
8/5/2012		69	82	17			
8/6/2012		60	73	17			
8/7/2012		68	81	17			
8/8/2012		64	77	17			
8/9/2012		63	76	16			
8/10/2012		77	90	17			
8/11/2012		63	76	16	1.5		
8/12/2012		61	74	16			
8/13/2012		59	72	16			
8/14/2012		62	75	16			
8/15/2012		71	84	16			
8/16/2012		62	75	16			
8/17/2012		63	76	16			
8/18/2012		66	79	16			
8/19/2012		66	79	16			
8/20/2012		58	71	16			
8/21/2012		69	82	16			
8/22/2012		64	77	16			
8/23/2012		68	81	16			
8/24/2012		63	76	16			
8/25/2012		65	78	16			
8/26/2012		62	75	16			
8/27/2012		61	74	16			
8/28/2012		61	74	16			
8/29/2012		64	77	15			
8/30/2012		62	75	16			
8/31/2012		59	72	16			

Total

504

0

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Zweygardt 23-19

St. Francis

St. Francis

Flow

September-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
9/1/2012		59	72	16				
9/2/2012		63	76	16				
9/3/2012		59	72	16				
9/4/2012		59	72	16			1	
9/5/2012		75	88	15				
9/6/2012		75	88	15				
9/7/2012		149	162	5			19	
9/8/2012		170	183	0			24	
9/9/2012		177	190	0			24	
9/10/2012		181	194	0			24	
9/11/2012		182	195	0			24	
9/12/2012		184	197	0			24	
9/13/2012		112	125	29			10	
9/14/2012		102	115	26				
9/15/2012		95	108	22				
9/16/2012		89	102	21				
9/17/2012		81	94	21				
9/18/2012		63	76	19				
9/19/2012		80	93	18				
9/20/2012		56	69	35				
9/21/2012		56	69	28				
9/22/2012		55	68	26				
9/23/2012		56	69	24				
9/24/2012		58	71	24				
9/25/2012		62	75	23				
9/26/2012		62	75	23				
9/27/2012		70	83	23				
9/28/2012		62	75	22				
9/29/2012		62	75	22				
9/30/2012		62	75	22				
10/1/2012								

Total

527

0