

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

Open Flow **ASL**

Deliverability

(See Instructions on Reverse Side)

Test Date:
8/22/2012

API No. 15
023-21257-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 22-19	
County Cheyenne	Location SWSNW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 11/11/10		Plug Back Total Depth 1475'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1513'	Perforations 1296'	To 1326'
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="radio"/> No <input checked="" type="radio"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1525'		Pressure Taps Flange		Gas Gravity - G _g .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-21 20 12 at 5:00 (AM) <input checked="" type="radio"/> (PM) Taken 8-22 20 12 at 5:15 (AM) <input checked="" type="radio"/> (PM)		Well on Line: Started 8-22 20 12 at 5:15 (AM) <input checked="" type="radio"/> (PM) Taken 8-23 20 12 at 5:30 (AM) <input checked="" type="radio"/> (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 _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						219	233.4				
Flow						144	159.4			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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						48		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ ; (P_w)² = _____ ; P₀ = _____ % ; (P_c - 14.4) + 14.4 = _____ ; (P_s)² = 0.207 ; (P₀)² = _____

(P _c) ² - (P _s) ² or (P _c) ² - (P ₀) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P ₀ ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_s^2}$	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 19 day of December, 20 12

Witness (if any)

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KANSAS CORPORATION COMMISSION

For Company

For Commission

Checked by

APR 15 2013

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 22-19 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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CONSERVATION DIVISION
WICHITA, KS

W2739
 Zwegardt 22-19
 St. Francis
 St. Francis
 Flow
 August-12
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012		142	155	48					
8/2/2012		142	155	48					
8/3/2012		141	154	48					
8/4/2012		141	154	48					
8/5/2012		141	154	48					
8/6/2012		141	154	48					
8/7/2012		141	154	48					
8/8/2012		141	154	48					
8/9/2012		140	153	48					
8/10/2012		141	155	48					
8/11/2012		140	153	48					
8/12/2012		140	153	48					
8/13/2012		140	153	48					
8/14/2012		140	153	48					
8/15/2012		140	153	48					
8/16/2012		139	152	48					
8/17/2012		140	153	47					
8/18/2012		139	152	48					
8/19/2012		139	152	48					
8/20/2012		139	152	48					
8/21/2012		140	153	48					si for state test cp-140
8/22/2012		219	163	0					reopened cp-219
8/23/2012		144	157	45					
8/24/2012		143	156	48					
8/25/2012		141	154	48					
8/26/2012		141	154	48					
8/27/2012		140	153	48					
8/28/2012		140	153	48					
8/29/2012		140	153	48					
8/30/2012		140	153	48					
8/31/2012		140	153	48					

Total

1436

0

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CONSERVATION DIVISION
 WICHITA, KS

W2739
 Zweygart 22-19
 St. Francis
 St. Francis
 Flow
 September-12
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2012		139	152		48				
9/2/2012		139	152		48				
9/3/2012		139	152		48				
9/4/2012		139	152		48				
9/5/2012		139	152		46				
9/6/2012		139	152		46				
9/7/2012		155	168		17			19	
9/8/2012		171	184		4			24	
9/9/2012		177	190		0			24	
9/10/2012		181	194		0			24	
9/11/2012		183	196		0			24	
9/12/2012		184	197		0			24	
9/13/2012		155	168		24			10	
9/14/2012		154	167		44				
9/15/2012		152	165		46				
9/16/2012		151	164		46				
9/17/2012		149	162		47				
9/18/2012		149	162		50				
9/19/2012		147	160		50				
9/20/2012		146	159		50				
9/21/2012		146	159		50				
9/22/2012		145	158		50				
9/23/2012		145	158		50				
9/24/2012		143	156		50				
9/25/2012		143	156		50				
9/26/2012		143	156		50				
9/27/2012		142	155		48				
9/28/2012		142	155		48				
9/29/2012		141	154		48				
9/30/2012		141	154		48				
10/1/2012									

Total

1154

0

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CONSERVATION DIVISION
 WICHITA, KS

W2739
 Zweygart 22-19
 St. Francis
 St. Francis
 Flow
 October-12
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
10/1/2012		141	154	48					
10/2/2012		141	154	48					
10/3/2012		140	153	48					
10/4/2012		140	153	48					
10/5/2012		140	153	48					
10/6/2012		139	152	48					
10/7/2012		139	152	48					
10/8/2012		139	152	48					
10/9/2012		139	152	48					
10/10/2012		139	152	48					
10/11/2012		139	152	47					
10/12/2012		139	152	47					
10/13/2012		139	152	47					
10/14/2012		139	152	47					
10/15/2012		139	152	47					
10/16/2012		139	152	47				1	
10/17/2012		138	151	47					
10/18/2012		138	151	47					
10/19/2012		138	151	47					
10/20/2012		138	151	47					
10/21/2012		137	150	47					
10/22/2012		137	150	47					
10/23/2012		137	150	47					
10/24/2012		137	150	47					
10/25/2012		137	150	47					
10/26/2012		136	149	47					
10/27/2012		136	149	47					
10/28/2012		136	149	47					
10/29/2012		137	150	47				2	
10/30/2012		137	150	43					
10/31/2012		137	150	46					
Total				1462				0	

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