

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **BSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/22/2012

API No. 15
023-21259-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 32-19	
County Cheyenne	Location SWNE	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/26/2010		Plug Back Total Depth 1471'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1509'	Perforations 1286'	To 1316'
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) 1525'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-21 20 12 at 5:50 (AM) (PM) Taken 8-22 20 12 at 6:10 (AM) (PM)		Well on Line: Started 8-22 20 12 at 6:10 (AM) (PM) Taken 8-23 20 12 at 6:30 (AM) (PM)			

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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						232	246.4				
Flow						73	87.4			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
						13		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_o)² = _____


(P _c) ² - (P _a) ² or (P _c) ² - (P _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _o 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" ----- or ----- 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



For Company

Checked by

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Form G-2
(Rev. 7/03)

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 32-19 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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Zweygardt 32-19

St. Francis

St. Francis

Flow

August-12

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DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI					
8/1/2012		75	88	13			
8/2/2012		68	81	13			
8/3/2012		68	81	13			
8/4/2012		66	79	13			
8/5/2012		76	89	13			
8/6/2012		66	79	13			
8/7/2012		70	83	13			
8/8/2012		69	82	13			
8/9/2012		68	81	13			
8/10/2012		82	95	13			
8/11/2012		69	82	13	1.5		
8/12/2012		66	79	13			
8/13/2012		65	78	13			
8/14/2012		66	79	13			
8/15/2012		77	90	13			
8/16/2012		66	79	13			
8/17/2012		67	80	12			
8/18/2012		68	81	12			
8/19/2012		71	84	12			
8/20/2012		64	77	12			
8/21/2012		67	80	12			
8/22/2012		73 232	80	0	24		si for state test cp-70 reopened cp-232
8/23/2012		73	86	20			
8/24/2012		70	83	14			
8/25/2012		71	84	13			
8/26/2012		67	80	13			
8/27/2012		67	80	13			
8/28/2012		67	80	13			
8/29/2012		69	82	13			
8/30/2012		67	80	13			
8/31/2012		60	73	13			

Total

393

0

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 Zwegardt 32-19
 St. Francis
 St. Francis
 Flow
 September-12
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DATE	Tubing PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2012		60	73		13	
9/2/2012		64	77		13	
9/3/2012		60	73		13	
9/4/2012		60	73		13	1
9/5/2012		76	89		12	
9/6/2012		76	89		12	
9/7/2012		153	166		4	19
9/8/2012		170	183		7	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		113	126		20	10
9/14/2012		103	116		18	
9/15/2012		96	109		16	
9/16/2012		90	103		16	
9/17/2012		82	95		15	
9/18/2012		64	77		15	
9/19/2012		79	92		14	
9/20/2012		56	69		14	
9/21/2012		57	70		14	
9/22/2012		56	69		14	
9/23/2012		56	69		14	
9/24/2012		59	72		14	
9/25/2012		63	76		14	
9/26/2012		63	76		13	
9/27/2012		71	84		13	
9/28/2012		63	76		13	
9/29/2012		63	76		13	
9/30/2012		63	76		13	
10/1/2012						

Total

350

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Zweygardt 32-19

St. Francis

St. Francis

Flow

October-12

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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
10/1/2012	63	76	13		
10/2/2012	63	76	13		
10/3/2012	64	77	13		
10/4/2012	61	74	13		
10/5/2012	62	75	13		
10/6/2012	62	75	13		
10/7/2012	61	74	13		
10/8/2012	62	75	13		
10/9/2012	62	75	13		
10/10/2012	64	77	13		
10/11/2012	63	76	13		
10/12/2012	62	75	13		
10/13/2012	62	75	13		
10/14/2012	65	78	12		
10/15/2012	63	76	13		
10/16/2012	83	96	13	1	
10/17/2012	64	77	13		
10/18/2012	61	74	12		
10/19/2012	61	74	12		
10/20/2012	64	77	12		
10/21/2012	61	74	12		
10/22/2012	66	79	12		
10/23/2012	61	74	12		
10/24/2012	61	74	12		
10/25/2012	58	71	12		
10/26/2012	61	74	12		
10/27/2012	59	72	12		
10/28/2012	59	72	12		
10/29/2012	85	98	12	2	
10/30/2012	74	87	12		
10/31/2012	61	74	12		

Total

388