

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **SI**
 Deliverability

Test Date:
8/21/2012

API No. 15
023-21252-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 44-24	
County Cheyenne	Location SESE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 9/20/2010		Plug Back Total Depth 1495'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1535'	Perforations 1320'	To 1350'
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	Gas Gravity - G _g .6	
Vertical Depth(H) 1550'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-20		20 12 at 5:35	(AM) <input checked="" type="checkbox"/> (PM)	Taken 8-21	20 12 at 5:50 (AM) <input checked="" type="checkbox"/> (PM)
Well on Line: Started 8-21		20 12 at 5:50	(AM) <input checked="" type="checkbox"/> (PM)	Taken 8-22	20 12 at 6:20 (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 Prover Pressure psig (P _m)	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						187	201.4				
Flow						75	89.4			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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						20		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	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 19 day of December, 20 12

Witness (if any)

For Commission

Janell Gerow

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 44-24 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 44-24
 St. Francis
 St. Francis
 Flow
 August-12
 FloBoss

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DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
8/1/2012		80	93	20			
8/2/2012		74	87	20			
8/3/2012		74	87	20			
8/4/2012		72	85	20			
8/5/2012		81	94	20			
8/6/2012		72	85	20			
8/7/2012		79	92	20			
8/8/2012		75	88	20			
8/9/2012		74	87	20			
8/10/2012		88	101	20			
8/11/2012		75	88	20	1.5		
8/12/2012		72	85	20			
8/13/2012		71	84	20			
8/14/2012		72	85	20			
8/15/2012		83	96	20			
8/16/2012		72	85	20			
8/17/2012		72	85	19			
8/18/2012		73	86	19			
8/19/2012		76	89	19			
8/20/2012		71	84	19			
8/21/2012		187	68	0	24		si for state test cp-72 reopened cp-187
8/22/2012		75	88	26			
8/23/2012		77	90	17			
8/24/2012		66	79	20			
8/25/2012		78	91	20			
8/26/2012		74	87	20			
8/27/2012		74	87	20			
8/28/2012		73	86	20			
8/29/2012		75	88	20			
8/30/2012		74	87	20			
8/31/2012		65	78	20			

Total

599

0

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Zweygardt 44-24

St. Francis

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Flow

September-12

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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2012	64	77	20		
9/2/2012	67	80	20		
9/3/2012	64	77	20		
9/4/2012	64	77	20	1	
9/5/2012	79	92	20		
9/6/2012	79	92	20		
9/7/2012	160	173	6	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	111	124	0	10	
9/14/2012	107	120	7		
9/15/2012	106	119	29		
9/16/2012	96	109	33		
9/17/2012	87	100	25		
9/18/2012	70	83	24		
9/19/2012	82	95	22		
9/20/2012	62	75	22		
9/21/2012	61	74	21		
9/22/2012	61	74	21		
9/23/2012	63	76	21		
9/24/2012	63	76	21		
9/25/2012	68	81	21		
9/26/2012	68	81	21		
9/27/2012	75	88	21		
9/28/2012	67	80	21		
9/29/2012	68	81	21		
9/30/2012	68	81	21		
10/1/2012					

Total

498

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Zweygardt 44-24

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	68	81		21	
10/2/2012	67	80		21	
10/3/2012	68	81		20	
10/4/2012	65	78		20	
10/5/2012	66	79		20	
10/6/2012	66	79		20	
10/7/2012	66	79		20	
10/8/2012	66	79		20	
10/9/2012	66	79		20	
10/10/2012	68	81		20	
10/11/2012	67	80		20	
10/12/2012	66	79		20	
10/13/2012	67	80		20	
10/14/2012	70	83		20	
10/15/2012	67	80		20	
10/16/2012	70	83		20	1
10/17/2012	68	81		20	
10/18/2012	65	78		20	
10/19/2012	65	78		20	
10/20/2012	66	79		20	
10/21/2012	65	78		20	
10/22/2012	67	80		20	
10/23/2012	65	78		20	
10/24/2012	65	78		20	
10/25/2012	62	75		20	
10/26/2012	64	77		19	
10/27/2012	63	76		19	
10/28/2012	63	76		10	
10/29/2012	87	100		19	2
10/30/2012	78	91		19	
10/31/2012	64	77		19	

Total

607