

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **AST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/18/2012

API No. 15
023-21268-0000

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 23-24	
County Cheyenne	Location NESW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/1/2010		Plug Back Total Depth 1461'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1499'	Perforations 1304'	To 1334'
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) 1510'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 8-17		20 12 at 6:25		(AM) <input checked="" type="checkbox"/> (PM) Taken 8-18	
Well on Line: Started 8-18		20 12 at 6:35		(AM) <input checked="" type="checkbox"/> (PM) Taken 8-19	

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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						197	211.4				
Flow						64	78.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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
						5		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _c) ² - (P _o) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _o 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: $\frac{P_c^2 - P_o^2}{P_c^2 - P_w^2}$	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)

Janell Gevel
For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

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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 Zimbelman 23-24 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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Zimbelman 23-24

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Flow

August-12

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DATE	Tubing PSI	Casing PSI	STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012		66	79	5			
8/2/2012		60	73	5			
8/3/2012		59	72	5			
8/4/2012		57	70	5			
8/5/2012		67	80	5			
8/6/2012		58	71	5			
8/7/2012		68	81	5			
8/8/2012		61	74	5			
8/9/2012		60	73	5			
8/10/2012		74	87	5			
8/11/2012		60	73	5	1.5		
8/12/2012		60	73	5			
8/13/2012		57	70	5			
8/14/2012		59	72	5			
8/15/2012		69	82	5			
8/16/2012		59	72	5			
8/17/2012		56	69	5			
8/18/2012		197	160	0	24		si for state test cp-66 reopened cp-197
8/19/2012		64	77	9			
8/20/2012		56	69	5			
8/21/2012		66	79	5			
8/22/2012		61	74	5			
8/23/2012		65	78	5			
8/24/2012		65	78	5			
8/25/2012		63	76	5			
8/26/2012		64	77	5			
8/27/2012		58	71	5			
8/28/2012		59	72	5			
8/29/2012		60	73	5			
8/30/2012		59	72	5			
8/31/2012		59	72	5			

Total

154

0

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Zimbelman 23-24

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Flow

September-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2012		59	72		5			
9/2/2012		62	75		5			
9/3/2012		59	72		5			
9/4/2012		58	71		5		1	
9/5/2012		75	88		5			
9/6/2012		75	88		5			
9/7/2012		150	163		2		19	
9/8/2012		170	183		2		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	13			10	
9/14/2012		103	116		8			
9/15/2012		95	108		7			
9/16/2012		89	102		7			
9/17/2012		81	94		7			
9/18/2012		62	75		7			
9/19/2012		78	91		5			
9/20/2012		55	68		5			
9/21/2012		55	68		5			
9/22/2012		55	68		5			
9/23/2012		55	68		5			
9/24/2012		57	70		5			
9/25/2012		62	75		5			
9/26/2012		62	75		5			
9/27/2012		69	82		5			
9/28/2012		62	75		5			
9/29/2012		62	75		5			
9/30/2012		62	75		5			
10/1/2012								

Total

143

0

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Zimbelman 23-24

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Flow

October-12

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
10/1/2012	62	75		5	
10/2/2012	61	74		5	
10/3/2012	62	75		5	
10/4/2012	59	72		5	
10/5/2012	60	73		5	
10/6/2012	61	75		5	
10/7/2012	60	73		5	
10/8/2012	60	73		5	
10/9/2012	62	75		5	
10/10/2012	62	75		5	
10/11/2012	61	74		5	
10/12/2012	61	74		5	
10/13/2012	62	75		5	
10/14/2012	64	77		5	
10/15/2012	61	74		5	
10/16/2012	81	94		5	1
10/17/2012	62	75		5	
10/18/2012	60	73		4	
10/19/2012	59	72		4	
10/20/2012	62	75		4	
10/21/2012	59	72		4	
10/22/2012	61	74		4	
10/23/2012	60	73		4	
10/24/2012	59	72		4	
10/25/2012	57	70		4	
10/26/2012	59	72		4	
10/27/2012	58	71		4	
10/28/2012	58	71		4	
10/29/2012	84	97		4	2
10/30/2012	73	86		4	
10/31/2012	59	72		4	

Total

141