

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow Deliverability

Test Date:
7/21/2012

API No. 15
023-21256-0000

Company Rosewood Resources, Inc.		Lease Zweygartd		Well Number 14-19	
County Cheyenne	Location SWSW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/16/2010		Plug Back Total Depth 1500'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1539'	Perforations 1314'	To 1344'
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) 1550'		Pressure Taps Flange		Gas Gravity - G _g .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-20 20 12 at 5:40 (AM) (PM) Taken 7-21 20 12 at 5:55 (AM) (PM)					
Well on Line: Started 7-21 20 12 at 5:55 (AM) (PM) Taken 7-22 20 12 at 6:20 (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 (P _m)	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						230	244.4				
Flow						84	98.4			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
						25		

(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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.

Jannell Gerwin
For Company

Witness (if any)

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 Zweygardt 14-19 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 14-19

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Flow

July-12

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DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2012		84	97	25				
7/2/2012		75	88	25			3	
7/3/2012		93	106	21				
7/4/2012		75	88	28				
7/5/2012		75	88	25				
7/6/2012		90	103	25			1	
7/7/2012		75	88	25				
7/8/2012		78	91	25				
7/9/2012		77	90	25				
7/10/2012		76	89	25				
7/11/2012		74	87	25				
7/12/2012		80	93	25				
7/13/2012		74	87	25				
7/14/2012		75	88	25				
7/15/2012		74	87	25				
7/16/2012		92	105	23			1.5	
7/17/2012		77	90	26				
7/18/2012		85	98	25				
7/19/2012		81	94	25			0.5	
7/20/2012		65	78	25				
7/21/2012		84 230	111	0			24	cp 78 si for state test cp230 opened
7/22/2012		84	97	32				
7/23/2012		85	98	29			0.5	
7/24/2012		85	98	26				
7/25/2012		86	99	26				
7/26/2012		75	88	26				
7/27/2012		96	109	15			5	
7/28/2012		91	104	27				
7/29/2012		77	90	29				
7/30/2012		73	86	25				
7/31/2012		73	86	25				

Total

758

0

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Zweygardt 14-19

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Flow

August-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCL	Water DOWN BBLs	REMARKS (Maximum length 110 characters)
8/1/2012		82	95	25				
8/2/2012		75	88	25				
8/3/2012		75	88	25				
8/4/2012		73	86	25				
8/5/2012		82	95	24				
8/6/2012		74	87	24				
8/7/2012		81	94	24				
8/8/2012		77	90	24				
8/9/2012		75	88	24				
8/10/2012		90	103	24				
8/11/2012		76	89	24		1.5		
8/12/2012		73	86	24				
8/13/2012		71	84	24				
8/14/2012		74	87	24				
8/15/2012		83	96	24				
8/16/2012		72	85	24				
8/17/2012		74	87	24				
8/18/2012		76	89	24				
8/19/2012		78	91	24				
8/20/2012		71	84	24				
8/21/2012		70	83	24				
8/22/2012		75	88	24				
8/23/2012		77	90	24				
8/24/2012		66	79	24				
8/25/2012		75	88	24				
8/26/2012		73	86	24				
8/27/2012		73	86	24				
8/28/2012		76	89	24				
8/29/2012		76	89	24				
8/30/2012		74	87	24				
8/31/2012		75	88	24				

Total

748

0

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Zweygardt 14-19

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Flow

September-12

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DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
9/1/2012		75	88	24				
9/2/2012		76	89	24				
9/3/2012		75	88	24				
9/4/2012		74	87	24			1	
9/5/2012		87	100	24				
9/6/2012		87	100	24				
9/7/2012		160	173	4			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		102	115	0				
9/15/2012		99	112	6				
9/16/2012		99	112	14				
9/17/2012		97	110	20				
9/18/2012		96	109	32				
9/19/2012		97	110	31				
9/20/2012		92	105	36				
9/21/2012		81	94	34				
9/22/2012		79	92	30				
9/23/2012		77	90	29				
9/24/2012		77	90	29				
9/25/2012		81	94	29				
9/26/2012		81	94	27				
9/27/2012		87	100	27				
9/28/2012		80	93	27				
9/29/2012		80	93	26				
9/30/2012		80	93	26				
10/1/2012								

Total

571

0