

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

Open Flow **AST**

(See Instructions on Reverse Side)

Deliverability

Test Date:
5/9/2011

API No. 15
023-21258-00 - 00-00

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 23-19	
County Cheyenne	Location NESW	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/14/2010		Plug Back Total Depth 1475'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1514'	Perforations 1316'	To 1346'
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) 1530'		Pressure Taps Flange		Gas Gravity - G _g .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 5-8	20 11 at 6:15	(AM) <input checked="" type="checkbox"/> (PM)	Taken 5-9	20 11 at 6:35 (AM) <input checked="" type="checkbox"/> (PM)
Well on Line:	Started 5-9	20 11 at 6:35	(AM) <input checked="" type="checkbox"/> (PM)	Taken 5-10	20 11 at 6:50 (AM) <input checked="" type="checkbox"/> (PM)

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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						230	244.4				
Flow						218	232.4			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
						65		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_w)² = 0.207

(P_e)² = _____ : (P_w)² = _____ : P_d = _____ % (P_e - 14.4) + 14.4 = _____ : (P_d)² = _____

(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _d) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_d^2}$	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 28 day of December, 20 11

Witness (if any)

For Commission

James E. Owen
For Company

Checked by

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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.

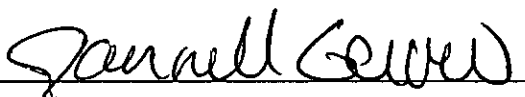
I hereby request a one-year exemption from open flow testing for the Zweygardt 23-19 gas well on the grounds that said well:

(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: 12/28/11

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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W2740
 Zwegardt 23-19
 St. Francis
 St. Francis
 Flow
 May-11
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
5/1/2011		226	158	63				
5/2/2011		225	158	64				
5/3/2011		222	157	64				
5/4/2011		222	158	65				
5/5/2011		222	158	65				
5/6/2011		222	157	65				
5/7/2011		225	157	65				
5/8/2011		225	159	65				
5/9/2011		230	146	0		24		Compressor Down
5/10/2011		225	158	33				
5/11/2011		225	158	63				
5/12/2011		225	159	65				
5/13/2011		225	158	65				
5/14/2011		225	158	65				
5/15/2011		225	158	65				
5/16/2011		225	158	65				
5/17/2011		224	157	65				
5/18/2011		225	158	65				
5/19/2011		225	145	66				
5/20/2011		224	157	66				
5/21/2011		225	157	65				
5/22/2011		224	157	63				
5/23/2011		221	157	65				
5/24/2011		219	145	65				
5/25/2011		219	144	65				
5/26/2011		219	157	65				
5/27/2011		218	157	65				
5/28/2011		218	157	65				
5/29/2011		218	157	65				
5/30/2011		218	157	65				
5/31/2011		218	157	65				

Total 1912 0

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W2740
 Zweygardt 23-19
 St. Francis
 St. Francis
 Flow
 June-11
 FloBoss

DATE	Tubing Casing			MCF	SPM	HRS CYCLE DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI	STATIC					
6/1/2011		218	157	65				
6/2/2011		218	157	64				
6/3/2011		218	157	65				
6/4/2011		218	157	65				
6/5/2011		217	156	65				
6/6/2011		217	156	65				
6/7/2011		217	157	65				
6/8/2011		217	157	65				
6/9/2011		217	157	65				
6/10/2011		217	157	65				
6/11/2011		217	157	65				
6/12/2011		217	157	65				
6/13/2011		217	157	65				
6/14/2011		217	157	65				
6/15/2011		217	157	65				
6/16/2011		217	157	64				
6/17/2011		217	157	64				
6/18/2011		216	156	65				
6/19/2011		216	156	65				
6/20/2011		216	157	64				
6/21/2011		216	157	65				
6/22/2011		216	157	65				
6/23/2011		216	156	59		1		
6/24/2011		216	156	64				
6/25/2011		216	156	64				
6/26/2011		216	156	64				
6/27/2011		216	156	64				
6/28/2011		216	156	64				
6/29/2011		216	156	64				
6/30/2011		216	156	64				
7/1/2011								

Total

1933

0

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W2740
 Zweygardt 23-19
 St. Francis
 St. Francis
 Flow
 July-11
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2011		216	155	64			
7/2/2011		216	113	64			
7/3/2011		216	113	64			
7/4/2011		216	114	64			
7/5/2011		216	155	64			
7/6/2011		216	156	64			
7/7/2011		216	156	64			
7/8/2011		216	156	64			
7/9/2011		216	156	64			
7/10/2011		216	155	64			
7/11/2011		216	156	64			
7/12/2011		216	156	64			
7/13/2011		216	156	64		1	
7/14/2011		216	155	63			
7/15/2011		216	111	64			
7/16/2011		216	111	64			
7/17/2011		216	113	64			
7/18/2011		209	155	64			
7/19/2011		209	155	62		2	
7/20/2011		209	155	64			
7/21/2011		209	155	62			
7/22/2011		207	155	64			
7/23/2011		207	155	64			
7/24/2011		207	155	64			
7/25/2011		207	155	64			
7/26/2011		207	155	64			
7/27/2011		207	155	61			
7/28/2011		207	155	63			
7/29/2011		207	155	62			
7/30/2011		205	141	63			
7/31/2011		205	142	64			

Total

1972

0

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