

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **ASI**
 Deliverability

Test Date:
6/6/2012

API No. 15
023-20793-0100

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 34-19H	
County Cheyenne	Location SWSE	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7/30/2007		Plug Back Total Depth 4241'		Packer Set at	
Casing Size 7"	Weight 23#	Internal Diameter 6.366	Set at 1622'	Perforations 1622' MD	To 424' MD Open Hole
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations Open Hole	To
Type Completion (Describe) Single (Horizontal)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes / No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1338'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-5		20 12 at 9:50		(AM) (PM) Taken 6-6	
Well on Line: Started 6-6		20 12 at 10:05		(AM) (PM) Taken 6-7	
		20 12 at 10:50		(AM) (PM)	

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OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						176	190.4				
Flow						60	74.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _d) (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
						21		

(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 = _____

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

Janell Geisler
For Company

For Commission

Checked by

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 34-19H 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: Jannell Gelew

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.

W2410
 Zweygardt 34-19H
 St. Francis
 St. Francis
 Flow
 June-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
6/1/2012		57	70	19				
6/2/2012		55	68	13				
6/3/2012		58	71	10				
6/4/2012		56	69	10				
6/5/2012		59	72	8				
6/6/2012		176	71	0		24		si for state test - 60 psi opened - 176
6/7/2012		60	73	9				
6/8/2012		59	72	9				
6/9/2012		61	74	58				
6/10/2012		60	73	21				
6/11/2012		60	73	18				
6/12/2012		60	73	16				
6/13/2012		60	73	14				
6/14/2012		60	73	13				
6/15/2012		59	72	12				
6/16/2012		62	75	58				
6/17/2012		60	73	22				
6/18/2012		60	73	17				
6/19/2012		66	79	14				
6/20/2012		69	82	12				
6/21/2012		73	86	52				
6/22/2012		77	90	17				
6/23/2012		75	88	15				
6/24/2012		69	82	16				
6/25/2012		75	88	13				
6/26/2012		74	87	50				
6/27/2012		72	85	17				
6/28/2012		75	88	14				
6/29/2012		75	88	44				
6/30/2012		67	80	18				
7/1/2012								

Total

609

0

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W2410

Zweygardt 34-19H

St. Francis

St. Francis

Flow

July-12

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
7/1/2012		69	82	15			
7/2/2012		60	73	16		3	
7/3/2012		77	90	0			
7/4/2012		58	71	15			
7/5/2012		57	70	14			
7/6/2012		55	68	12			blew down @ well head
7/7/2012		60	73	58			
7/8/2012		64	77	16			
7/9/2012		62	75	15			
7/10/2012		62	75	13			
7/11/2012		59	72	12			
7/12/2012		59	72	12			
7/13/2012		58	71	46			
7/14/2012		59	72	15			
7/15/2012		59	72	13			
7/16/2012		69	82	8		1.5	
7/17/2012		61	74	11			
7/18/2012		54	67	2			
7/19/2012		62	75	58		0.5	blew down @ well head
7/20/2012		63	76	29			
7/21/2012		65	78	12			
7/22/2012		58	71	11			
7/23/2012		58	71	9		0.5	blew down @ well head
7/24/2012		66	79	38			
7/25/2012		71	84	11			
7/26/2012		59	72	35			
7/27/2012		77	89	14		5	
7/28/2012		70	83	9			
7/29/2012		59	72	13			
7/30/2012		57	70	9			
7/31/2012		56	69	6			

Total

547

0

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W2410

Zweygardt 34-19H

St. Francis

St. Francis

Flow

August-12

DATE	Tubing Casing		STATIC	MCF	SPM	CYCL	DOWN	HRS	Water BBL	REMARKS (Maximum length 110 characters)
	PSI	PSI								
8/1/2012		57	70	4						blew down @ well head
8/2/2012		60	73	42						
8/3/2012		59	72	13						
8/4/2012		60	73	12						
8/5/2012		60	73	7						blew down @ well head
8/6/2012		58	71	35						
8/7/2012		62	75	12						blew down @ well head
8/8/2012		61	74	31						
8/9/2012		60	73	12						
8/10/2012		73	86	13						
8/11/2012		61	74	5				1.5		
8/12/2012		61	73	8						blew down @ well head
8/13/2012		67	70	36						
8/14/2012		56	69	12						
8/15/2012		62	75	9						blew down @ well head
8/16/2012		58	71	34						
8/17/2012		54	67	12						blew down @ well head
8/18/2012		55	68	29						
8/19/2012		63	76	11						
8/20/2012		56	69	9						
8/21/2012		55	68	9						blew down @ well head
8/22/2012		60	73	36						
8/23/2012		58	71	11						
8/24/2012		61	74	7						
8/25/2012		62	75	5						
8/26/2012		61	74	8						blew down @ well head
8/27/2012		59	72	25						
8/28/2012		58	71	13						blew down @ well head
8/29/2012		63	76	61						
8/30/2012		59	72	34						
8/31/2012		59	72	25						

Total

580

0