

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **OST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/10/2013

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 4241' 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1338'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 7-9 20 13 at 9:50 (AM) (PM) Taken 7-10 20 13 at 10:05 (AM) (PM)		Well on Line: Started 7-11 20 13 at 10:05 (AM) (PM) Taken 7-12 20 13 at 10:50 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in **48** 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 _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						167	181.4				
Flow						72	86.4			48	0

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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						8		

(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 21 day of November, 20 13.

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Janell Martiney
For Company

Witness (if any)

For Commission

DEC 26 2013

CONSERVATION DIVISION
WICHITA, KS

Checked by

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: 11/21/13

Signature: 
Title: Production Assistant

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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

July-13

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2013		55	68		18				
7/2/2013		55	68		2				blew down at well head
7/3/2013		56	69		16				
7/4/2013		56	69		9				
7/5/2013		56	69		7				
7/6/2013		57	70		0				blew down at well head
7/7/2013		69	82		14				
7/8/2013		67	80		6				
7/9/2013		163	80		2				si for state test - cp 163
7/10/2013		167	72		0			24	cp 167
7/11/2013		60	73		0			24	still shut in per wayne
7/12/2013		66	79		0				
7/13/2013		75	88		0			2.5	
7/14/2013		78	91		0				
7/15/2013		58	71		0				
7/16/2013		57	70		0				
7/17/2013		57	70		0				reopened - cp 171
7/18/2013		80	93		15				
7/19/2013		72	85		8				si per wayne
7/20/2013		163	87		5				cp 163
7/21/2013		162	89		0				cp 162
7/22/2013		161	86		0				cp 161
7/23/2013		163	80		0				cp 163
7/24/2013		160	86		0				cp 160
7/25/2013		160	93		0				cp 160
7/26/2013		158	80		0				cp 158
7/27/2013		156	70		0				cp 156
7/28/2013		157	73		0				cp 157
7/29/2013		159	71		0				cp 159
7/30/2013		158	71		0			3.5	cp 158
7/31/2013		87	100		0			5.5	cp 158
Total					102			0	

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W2410
 Zwegardt 34-19H
 St. Francis
 St. Francis
 Flow
 August-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
8/1/2013	157	91		0	
8/2/2013	157	92		0	
8/3/2013	157	90		0	
8/4/2013	157	87		0	
8/5/2013	157	81		0	
8/6/2013	157	69		0	
8/7/2013	156	65		0	
8/8/2013	156	69		0	
8/9/2013	160	73		0	
8/10/2013	158	70		0	
8/11/2013	157	68		0	
8/12/2013	150	68		0	
8/13/2013	77	68		0	
8/14/2013	157	69		0	
8/15/2013	157	68		0	0.5
8/16/2013	156	79		0	
8/17/2013	155	79		0	
8/18/2013	157	80		0	
8/19/2013	157	80		0	1.5
8/20/2013	156	92		0	1
8/21/2013	157	100		0	
8/22/2013	159	102		0	5
8/23/2013	158	87		0	
8/24/2013	159	96		0	1
8/25/2013	157	102		0	1
8/26/2013	157	69		0	
8/27/2013	155	66		0	
8/28/2013	154	65		0	
8/29/2013	155	21		0	1
8/30/2013	155	99		0	
8/31/2013	155	100		0	

Total 0

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W2410
 Zwegardt 34-19H
 St. Francis
 St. Francis
 Flow
 September-13

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
9/1/2013	155	118		0	1	
9/2/2013	155	118		0		
9/3/2013	156	118		0	22	
9/4/2013	176	189		0	10	
9/5/2013	117	130		0		
9/6/2013	155	102		0	1	
9/7/2013	158	107		0		
9/8/2013	158	105		0		
9/9/2013	157	115		0		
9/10/2013	157	121		9	2	
9/11/2013	160	134		0		
9/12/2013	174	187		0	18	
9/13/2013	155	111		0	4	
9/14/2013	155	93		0	2	
9/15/2013	157	100		0		
9/16/2013	157	77		0		
9/17/2013	55	68		0		
9/18/2013	54	67		0		
9/19/2013	49	62		0		
9/20/2013	154	55		0		
9/21/2013	158	78		0		
9/22/2013	155	75		0		
9/23/2013	155	77		0		
9/24/2013	57	70		0	4	
9/25/2013	85	98		0		
9/26/2013	75	88		0		
9/27/2013	53	66		0		
9/28/2013	56	69		0		
9/29/2013	57	70		0		
9/30/2013	61	74		0		
10/1/2013						

Total 9

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