

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **AST**
 Deliverability

Test Date:
7/19/2013

API No. 15
023-21265-0000

Company Rosewood Resources, Inc.		Lease Zweygardt			Well Number 33-19	
County Cheyenne	Location NWSE	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80	
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.		
Completion Date 9/28/2010		Plug Back Total Depth 1507'		Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1546'	Perforations 1322'	To 1352'	
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 checked="" type="checkbox"/> No <input type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen		Gas Gravity - G _g .6
Vertical Depth(H) 1560'		Pressure Taps Flange			(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in		7-18	20 13	at 6:00	(AM) (PM) Taken	7-19 20 13 at 6:15 (AM) (PM)
Well on Line: Started		7-19	20 13	at 6:15	(AM) (PM) Taken	7-20 20 13 at 6:40 (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						170	184.4				
Flow						112	126.4			24	

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
						63		

(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 on the 21 day of November, 20 13.

KANSAS CORPORATION COMMISSION

Witness (if any)

DEC 26 2013

For Company

For Commission

CONSERVATION DIVISION
WICHITA, KS

Checked by

Samuel Martiney
For Company

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 33-19 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: 11/21/13

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Signature: _____

Jannell Mortimer

DEC 26 2013

Title: Production Assistant

CONSERVATION DIVISION
WICHITA, KS

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.

W2749
 Zweygartd 33-19
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	158	171		43	
7/2/2013	149	162		44	
7/3/2013	156	169		43	
7/4/2013	159	172		44	
7/5/2013	159	172		44	
7/6/2013	154	167		44	
7/7/2013	157	170		44	
7/8/2013	159	172		44	
7/9/2013	160	173		44	
7/10/2013	161	174		44	
7/11/2013	161	174		44	
7/12/2013	162	175		44	
7/13/2013	162	175		44	2.5
7/14/2013	162	175		44	
7/15/2013	162	175		44	
7/16/2013	162	175		44	
7/17/2013	161	174		45	cp 170
7/18/2013	165	94		43	si for state test - cp 165
7/19/2013	170	174		0	24 reopened - cp 170
7/20/2013	156	169		54	actual cp 162
7/21/2013	156	169		61	actual cp 160
7/22/2013	155	168		61	actual cp 160
7/23/2013	155	168		61	actual cp 161
7/24/2013	149	162		68	actual cp 153
7/25/2013	148	161		68	actual cp 151
7/26/2013	146	159		68	opened to 80mcf, cp 146
7/27/2013	119	132		67	cp119
7/28/2013	118	132		67	cp 118
7/29/2013	117	130		67	cp 117
7/30/2013	116	134		66	3.5 cp 116
7/31/2013	135	151		63	5.5 cp 135

Total

1561

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COMM. REG.
 DIVISION 45

W2749

Zweygardt 33-19

St. Francis

St. Francis

Flow

August-13

FloBoss

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
8/1/2013	126	139	66		
8/2/2013	124	138	65		
8/3/2013	121	134	65		
8/4/2013	121	135	65		
8/5/2013	120	131	63		
8/6/2013	117	130	63		
8/7/2013	112	126	63		
8/8/2013	112	126	63		
8/9/2013	115	128	63		
8/10/2013	100	111	63		
8/11/2013	97	109	62		
8/12/2013	95	108	62		
8/13/2013	77	90	62		
8/14/2013	78	91	62		
8/15/2013	78	84	62	0.5	
8/16/2013	74	87	61		
8/17/2013	69	83	62		
8/18/2013	71	81	62		
8/19/2013	70	83	62	1.5	
8/20/2013	81	105	61	1	
8/21/2013	89	103	61		
8/22/2013	91	104	61	5	
8/23/2013	76	89	61		
8/24/2013	85	98	61	1	
8/25/2013	92	103	59	1	
8/26/2013	60	73	61		
8/27/2013	56	69	61		
8/28/2013	55	68	59		
8/29/2013	86	99	59	1	
8/30/2013	88	101	57		
8/31/2013	89	102	57		

Total

1914

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CONSERVATION DIVISION
WICHITA, KS

W2749

Zweygartdt 33-19

St. Francis

St. Francis

Flow

September-13

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2013	111	124		56	1
9/2/2013	94	107		60	
9/3/2013	162	175		58	22
9/4/2013	176	189		13	10
9/5/2013	117	130		64	
9/6/2013	91	104		66	1
9/7/2013	96	109		59	
9/8/2013	94	107		59	
9/9/2013	96	109		58	
9/10/2013	99	112		58	
9/11/2013	144	157		58	
9/12/2013	174	187		23	18
9/13/2013	92	105		74	4
9/14/2013	77	90		59	2
9/15/2013	85	98		57	
9/16/2013	65	78		57	
9/17/2013	58	71		57	
9/18/2013	56	69		57	
9/19/2013	51	64		56	
9/20/2013	42	55		56	
9/21/2013	53	66		53	
9/22/2013	66	79		56	
9/23/2013	68	81		56	
9/24/2013	59	72		56	4
9/25/2013	88	101		54	
9/26/2013	75	88		56	
9/27/2013	56	69		56	
9/28/2013	59	72		56	
9/29/2013	59	72		56	
9/30/2013	63	76		56	
10/1/2013					

Total

1660

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