

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow Deliverability

(See Instructions on Reverse Side)

Test Date:
5/9/2013

API No. 15
023-21074-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 44-10	
County Cheyenne	Location SESE	Section 10	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/19/2008		Plug Back Total Depth 1618'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1618'	Perforations 1386'	To 1416'
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	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 5360'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 5-8		20 13 at 4:15		(AM) (PM) Taken 5-9	
Well on Line: Started 5-9		20 13 at 4:30		(AM) (PM) Taken 5-10	
				20 13 at 4:30 (AM) (PM)	
				20 13 at 5:15 (AM) (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 _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						147	161.4				
Flow						64	78.4			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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						16		

(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" 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.

Witness (if any)

For Commission

Garrett Martine
For Company
KCC WICHITA

Checked by

DEC 26 2013

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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 44-10 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: *Samuel Martiney*
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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W2602
 Zweygardt 44-10
 St. Francis
 St. Francis
 None
 May-13
 FloBoss

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
5/1/2013	55	68		15	
5/2/2013	62	75		15	
5/3/2013	59	72		15	
5/4/2013	47	60		16	
5/5/2013	50	63		16	
5/6/2013	48	61		15	
5/7/2013	51	64		15	
5/8/2013	53	66		15	si for state test - cp 61
5/9/2013	121	134		0	24 reopened - cp 147
5/10/2013	67	80		21	
5/11/2013	60	73		16	
5/12/2013	59	72		16	
5/13/2013	61	74		16	
5/14/2013	64	77		16	
5/15/2013	87	100		16	2.5
5/16/2013	74	87		16	
5/17/2013	59	72		16	
5/18/2013	52	65		16	
5/19/2013	62	75		15	
5/20/2013	57	70		15	
5/21/2013	63	76		16	
5/22/2013	66	79		15	14
5/23/2013	149	162		7	10
5/24/2013	104	117		17	4
5/25/2013	91	104		17	
5/26/2013	87	100		17	
5/27/2013	84	97		16	
5/28/2013	73	86		16	
5/29/2013	64	77		16	
5/30/2013	52	65		16	
5/31/2013	53	66		16	

Total 470

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W2602
 Zweygardt 44-10
 St. Francis
 St. Francis
 None
 June-13
 FloBoss

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
6/1/2013	52	65		18	
6/2/2013	52	65		15	
6/3/2013	47	60		16	
6/4/2013	45	58		16	
6/5/2013	52	65		16	
6/6/2013	59	72		16	
6/7/2013	54	67		16	
6/8/2013	50	63		16	
6/9/2013	53	66		16	
6/10/2013	85	98		16	2
6/11/2013	74	87		16	1
6/12/2013	72	85		16	
6/13/2013	53	66		16	
6/14/2013	53	66		16	
6/15/2013	58	71		16	
6/16/2013	58	71		15	
6/17/2013	55	68		15	
6/18/2013	49	62		15	
6/19/2013	45	58		15	
6/20/2013	52	65		15	
6/21/2013	58	71		15	
6/22/2013	77	90		15	
6/23/2013	79	92		15	
6/24/2013	76	89		15	
6/25/2013	79	92		15	
6/26/2013	77	90		15	
6/27/2013	64	77		15	
6/28/2013	49	62		15	
6/29/2013	50	63		15	
6/30/2013	49	62		15	
7/1/2013					

Total 466

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W2602

Zweygartd 44-10

St. Francis

St. Francis

None

July-13

FloBoss

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
7/1/2013	52	65		15	
7/2/2013	52	65		15	
7/3/2013	52	65		15	
7/4/2013	55	68		15	
7/5/2013	55	68		15	
7/6/2013	54	67		15	
7/7/2013	66	79		15	
7/8/2013	64	77		15	
7/9/2013	63	76		15	
7/10/2013	59	72		15	
7/11/2013	63	76		15	
7/12/2013	69	82		15	
7/13/2013	73	86		15	2.5
7/14/2013	75	88		14	
7/15/2013	55	68		15	
7/16/2013	52	65		15	
7/17/2013	48	61		15	
7/18/2013	79	92		15	
7/19/2013	70	83		15	
7/20/2013	72	85		15	
7/21/2013	73	86		15	
7/22/2013	69	82		15	
7/23/2013	65	78		15	
7/24/2013	72	85		15	
7/25/2013	76	89		15	
7/26/2013	64	77		15	
7/27/2013	52	65		15	
7/28/2013	53	66		15	
7/29/2013	51	64		15	
7/30/2013	51	64		15	3.5
7/31/2013	105	118		15	5.5

Total

464

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