

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **SI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/11/2013

API No. 15
023-20790-0000

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 24-12	
County Cheyenne	Location SESW	Section 12	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 8/3/2007		Plug Back Total Depth		Packer Set at	
Casing Size 7"	Weight 23#	Internal Diameter 6.366	Set at 1338'	Perforations 1340'	To 1390'
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) 1393'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 7-10		20 13 at 9:00		(AM) (PM) Taken 7-11	
Well on Line: Started 7-11		20 13 at 9:15		(AM) (PM) Taken 7-12	
				20 13 at 9:15 (AM) (PM)	
				20 13 at 10:00 (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						229	243.4				
Flow						66	80.4			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
						12		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_o)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 _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _o 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 21 day of November, 20 13.

KCC WICHITA

Jannell Martiney
For Company

Witness (if any)

MAR 17 2014

For Commission

Checked by

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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 24-12 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 Mattingly*
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.

W2447
 Zweygardt 24-12
 St. Francis
 St. Francis
 Flow
 July-13

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2013	54	67		12		
7/2/2013	54	67		12		
7/3/2013	56	69		12		
7/4/2013	57	70		12		
7/5/2013	57	70		12		
7/6/2013	57	70		12		
7/7/2013	68	81		11		
7/8/2013	67	80		12		
7/9/2013	66	79		12		
7/10/2013	60	70		12		si for state test - cp 60
7/11/2013	229	72		0	24	reopened - cp 229
7/12/2013	65	78		12		
7/13/2013	74	87		13	2.5	
7/14/2013	77	90		12		
7/15/2013	56	69		12		
7/16/2013	56	69		13		
7/17/2013	52	65		13		
7/18/2013	78	91		12		
7/19/2013	71	84		12		
7/20/2013	74	87		12		
7/21/2013	75	88		12		
7/22/2013	72	85		12		
7/23/2013	66	79		12		
7/24/2013	72	85		12		
7/25/2013	78	91		12		
7/26/2013	60	73		12		
7/27/2013	56	69		12		
7/28/2013	57	70		12		
7/29/2013	55	68		12		
7/30/2013	55	68		12	3.5	
7/31/2013	92	105		10	5.5	

Total

360

0

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CONSERVATION DIVISION
 WICHITA, KS

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W2447
 Zweygardt 24-12
 St. Francis
 St. Francis
 Flow
 August-13

DATE	Casing			HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF			
8/1/2013	77	90		12		
8/2/2013	77	90		12		
8/3/2013	75	88		12		
8/4/2013	73	86		12		
8/5/2013	66	79		12		
8/6/2013	54	67		13		
8/7/2013	50	63		12		
8/8/2013	55	68		12		
8/9/2013	57	70		12		
8/10/2013	54	67		12		
8/11/2013	42	55		12		
8/12/2013	53	66		12		
8/13/2013	52	65		12		
8/14/2013	53	66		12		
8/15/2013	53	66		12	0.5	
8/16/2013	64	77		11		
8/17/2013	64	77		12		
8/18/2013	64	77		12		
8/19/2013	65	78		12	1.5	
8/20/2013	77	90		11	1	
8/21/2013	86	99		11		
8/22/2013	89	102		11	5	
8/23/2013	73	86		12		
8/24/2013	82	95		12	1	
8/25/2013	89	102		11		
8/26/2013	57	70		12	1	
8/27/2013	51	64		13		
8/28/2013	50	63		12		
8/29/2013	77	90		11	1	
8/30/2013	85	98		11		
8/31/2013	86	99		11		

Total

366

11

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 WICHITA, KS

W2447
 Zwegardt 24-12
 St. Francis
 St. Francis
 Flow
 September-13

DATE	Casing			HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF			
9/1/2013	104	117		11	1	
9/2/2013	104	117		11		
9/3/2013	114	127		11	22	
9/4/2013	176	189		4	10	
9/5/2013	113	126		11		
9/6/2013	87	100		13	1	
9/7/2013	93	106		12		
9/8/2013	91	104		12		
9/9/2013	101	114		12		
9/10/2013	103	116		11	2	
9/11/2013	123	136		11		
9/12/2013	143	156		5	18	
9/13/2013	104	117		11	4	
9/14/2013	78	91		12	2	
9/15/2013	85	98		11		
9/16/2013	63	76		13		
9/17/2013	43	56		12		
9/18/2013	53	66		12		
9/19/2013	48	61		13		
9/20/2013	48	61		12		
9/21/2013	46	59		12		
9/22/2013	59	72		12		
9/23/2013	61	74		12		
9/24/2013	54	67		12	4	
9/25/2013	83	96		10		
9/26/2013	74	87		12		
9/27/2013	51	64		13		
9/28/2013	54	67		12		
9/29/2013	55	68		12		
9/30/2013	60	73		12		
10/1/2013						

Total

339

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