

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **OSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/1/2015

API No. 15
023-20430-0100

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 2-26H	
County Cheyenne	Location NWSENE	Section 26	TWP 3S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 7-16-2001		Plug Back Total Depth 2626'MD	Packer Set at		
Casing Size 7"	Weight 23#	Internal Diameter 6.366	Set at 1780'	Perforations 1534' MD	To 1383'MD
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Horizontal)		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	Gas Gravity - G _g .6	
Vertical Depth(H) 1383' MD		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-1		20 15 at 1:30	(AM) <input checked="" type="checkbox"/> (PM)	20 15 at 1:45	(AM) <input checked="" type="checkbox"/> (PM)
Well on Line: Started 6-4		20 15 at 1:45	(AM) <input checked="" type="checkbox"/> (PM)	20 15 at 2:30	(AM) <input checked="" type="checkbox"/> (PM)

OBSERVED SURFACE DATA

Duration of Shut-in **96** 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 _c) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						153	167.4				
Flow						34	48.4			96	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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
						4		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)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 _e) 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" ----- 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 December, 20 15.

Witness (if any) KCC WICHITA Samuel Matney For Company

For Commission APR 07 2016 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 2-26H 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: 12/21/15

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Signature: *James Martiny*
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.


W387 WELL ID
 Zweygardt 2-26H LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 June-15 DATE
 Chart Meter

DATE	Line PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2015	121	121	134		0	24
6/2/2015	121	121	134		0	24
6/3/2015	135	135	148		0	24
6/4/2015	140	140	153		0	24
6/5/2015	76	76	89		4	0
6/6/2015	21	21	34		4	0
6/7/2015	21	21	34		4	0
6/8/2015	21	21	34		4	0
6/9/2015	21	21	34		4	0
6/10/2015	21	21	34		4	0
6/11/2015	21	21	34		4	0
6/12/2015	21	21	34		4	0
6/13/2015	21	21	34		4	0
6/14/2015	21	21	34		4	0
6/15/2015	21	21	34		4	0
6/16/2015	21	21	34		4	0
6/17/2015	21	21	34		4	0
6/18/2015	21	21	34		4	0
6/19/2015	21	21	34		4	0
6/20/2015	21	21	34		4	0
6/21/2015	21	21	34		4	0
6/22/2015	21	21	34		4	0
6/23/2015	21	21	34		4	0
6/24/2015	21	21	34		4	0
6/25/2015	21	21	34		4	0
6/26/2015	21	21	34		4	0
6/27/2015	21	21	34		4	0
6/28/2015	21	21	34		4	0
6/29/2015	21	21	34		4	0
6/30/2015	21	21	34		4	0
7/1/2015		0	13			

Total

104

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W387 WELL ID
 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 July-15 DATE
 Chart Meter

DATE	Line PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2015		21	21	34	4	
7/2/2015		21	21	34	4	
7/3/2015		21	21	34	4	
7/4/2015		21	21	34	4	
7/5/2015		21	21	34	4	
7/6/2015		21	21	34	4	
7/7/2015		21	21	34	4	
7/8/2015		21	21	34	4	
7/9/2015		21	21	34	4	
7/10/2015		21	21	34	4	
7/11/2015		21	21	34	4	
7/12/2015		21	21	34	4	
7/13/2015		21	21	34	4	
7/14/2015		21	21	34	4	
7/15/2015		21	21	34	4	
7/16/2015		21	21	34	4	
7/17/2015		21	21	34	4	
7/18/2015		21	21	34	4	
7/19/2015		21	21	34	4	
7/20/2015		21	21	34	4	
7/21/2015		21	21	34	4	
7/22/2015		21	21	34	4	
7/23/2015		21	21	34	4	
7/24/2015		21	21	34	4	
7/25/2015		21	21	34	4	
7/26/2015		21	21	34	4	
7/27/2015		21	21	34	4	
7/28/2015		21	21	34	4	
7/29/2015		21	21	34	4	
7/30/2015		21	21	34	4	
7/31/2015		21	21	34	4	

Total

124

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W387 WELL ID
 Zweygardt 2-26H LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 August-15 DATE
 Chart Meter

DATE	Line PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2015	21	21	34		0	well shut in
8/2/2015	21	21	34		0	
8/3/2015	21	21	34		0	
8/4/2015	21	21	34		0	
8/5/2015	21	21	34		0	
8/6/2015	21	21	34		0	
8/7/2015	21	21	34		0	
8/8/2015	21	21	34		0	
8/9/2015	21	21	34		0	
8/10/2015	21	21	34		0	
8/11/2015	21	21	34		0	
8/12/2015	21	21	34		0	
8/13/2015	21	21	34		0	
8/14/2015	21	21	34		0	
8/15/2015	21	21	34		0	
8/16/2015	21	21	34		0	
8/17/2015	21	21	34		0	
8/18/2015	21	21	34		0	
8/19/2015	21	21	34		0	
8/20/2015	21	21	34		4	
8/21/2015	28	28	41		2	
8/22/2015	31	31	44		0	
8/23/2015	28	28	41		2	
8/24/2015	28	28	41		2	
8/25/2015	28	28	41		3	
8/26/2015	28	28	41		4	
8/27/2015	28	28	41		4	
8/28/2015	28	28	41		4	
8/29/2015	28	28	41		4	
8/30/2015	28	28	41		4	
8/31/2015	28	28	41		4	

Total

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