

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **RSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/9/2015

API No. 15
023-20589-0000

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 3-24	
County Cheyenne	Location SESWNW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9-10-2004		Plug Back Total Depth 1502'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1507'	Perforations 1292'	To 1330'
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? <input checked="" type="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1330'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-9 20 15 at 9:15 <input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM) Taken 7-10 20 15 at 9:30 <input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM)		Well on Line: Started 7-10 20 15 at 9:30 <input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM) Taken 7-11 20 15 at 10:15 <input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (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						173	187.4				
Flow						47	61.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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
						27		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² =

(P_c)² = _____ : (P_w)² = _____ : P_o = _____ % (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: $P_c^2 - P_w^2$	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 18 day of December, 20 15.

KCC WICHITA

Samuel Matney
For Company

Witness (if any)

APR 07 2016

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 Zimbelman 3-24 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: 12/18/15

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Signature: *Janell 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.

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None

July-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2015		49	62	27	6	6	6	0	10
7/2/2015		49	62	27	6	6	6	0	10
7/3/2015		49	62	27	6	6	6	0	10
7/4/2015		49	62	27	6	6	6	0	10
7/5/2015		49	63	27	6	6	6	0	10
7/6/2015		48	70	28	6	6	6	2	10
7/7/2015		48	61	27	6	6	6	0	10
7/8/2015		48	61	27	6	6	6	16	10 turn off p u
7/9/2015		88	99	2	6	6	6	24	0
7/10/2015		173	145	0	6	6	6	14	0
7/11/2015		100	115	30	6	6	6	0	0
7/12/2015		86	94	30	6	6	6	0	0
7/13/2015		54	80	27	6	6	6	0	0 restarted pu
7/14/2015		49	64	27	6	6	6	0	10
7/15/2015		49	61	27	6	6	6	0	10
7/16/2015		49	62	27	6	6	6	0	10
7/17/2015		49	61	27	6	6	6	0	10
7/18/2015		47	61	27	6	6	6	0	10
7/19/2015		47	60	27	6	6	6	0	10
7/20/2015		47	60	27	6	6	6	0	10
7/21/2015		49	73	27	6	6	6	2	10
7/22/2015		48	61	27	6	6	6	0	10
7/23/2015		48	60	27	6	6	6	0	10
7/24/2015		47	60	27	6	6	6	0	10
7/25/2015		47	60	27	6	6	6	0	10
7/26/2015		47	60	27	6	6	6	0	10
7/27/2015		47	60	27	6	6	6	0	10
7/28/2015		47	60	27	6	6	6	0	10
7/29/2015		47	59	27	6	6	6	0	10
7/30/2015		47	59	27	6	6	6	0	10
7/31/2015		47	60	27	6	6	6	0	10

Total

792

260

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None

August-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2015		47	60	27	6	6	6	0	9
8/2/2015		48	61	27	6	6	6	0	9
8/3/2015		49	62	26	6	6	6	0	9
8/4/2015		47	60	26	6	6	6	0	9
8/5/2015		46	59	26	6	6	6	0	9
8/6/2015		47	60	26	6	6	6	0	9
8/7/2015		47	60	26	6	6	6	0	9
8/8/2015		48	61	26	6	6	6	0	9
8/9/2015		49	62	26	6	6	6	0	9
8/10/2015		51	64	26	6	6	6	0	9
8/11/2015		51	64	26	6	6	6	0	9
8/12/2015		52	65	27	6	6	6	0	9
8/13/2015		52	65	27	6	6	6	0	9
8/14/2015		52	65	27	6	6	6	0	9
8/15/2015		53	66	27	6	6	6	0	9
8/16/2015		54	67	27	6	6	6	0	9
8/17/2015		52	65	27	6	6	6	0	9
8/18/2015		52	65	27	6	6	6	0	9
8/19/2015		53	66	27	6	6	6	0	9
8/20/2015		52	65	27	6	6	6	0	9
8/21/2015		52	65	27	6	6	6	0	9 2.5 ppm h2s at meter
8/22/2015		53	66	27	6	6	6	0	9
8/23/2015		53	66	27	6	6	6	0	9
8/24/2015		53	66	27	6	6	6	0	9
8/25/2015		54	67	27	6	6	6	0	9
8/26/2015		53	66	27	6	6	6	0	9
8/27/2015		51	64	27	6	6	6	0	9
8/28/2015		48	61	26	6	6	6	0	9
8/29/2015		52	65	27	6	6	6	0	9
8/30/2015		55	68	27	6	6	6	4	9
8/31/2015		57	70	27	6	6	6	0	9
Total				827				279	

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None

September-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2015		70	83	26	6	6	6	0	10
9/2/2015		49	62	27	6	6	6	0	10
9/3/2015		49	62	27	6	6	6	0	10
9/4/2015		52	65	26	6	6	6	0	10
9/5/2015		58	71	27	6	6	6	0	10
9/6/2015		61	74	27	6	6	6	0	10
9/7/2015		60	73	27	6	6	6	0	10
9/8/2015		58	71	27	6	6	6	0	10
9/9/2015		61	74	27	6	6	6	0	10
9/10/2015		50	63	27	6	6	6	0	10
9/11/2015		53	66	26	6	6	6	0	10
9/12/2015		54	67	26	6	6	6	0	10
9/13/2015		53	66	26	6	6	6	0	10
9/14/2015		55	68	26	6	6	6	0	10
9/15/2015		56	69	26	6	6	6	0	10
9/16/2015		57	70	26	6	6	6	0	10
9/17/2015		58	71	26	6	6	6	0	10
9/18/2015		58	71	26	6	6	6	0	10
9/19/2015		54	67	26	6	6	6	0	10
9/20/2015		52	65	26	6	6	6	0	10
9/21/2015		53	66	26	6	6	6	0	10
9/22/2015		55	68	26	6	6	6	0	10
9/23/2015		56	69	26	6	6	6	0	10
9/24/2015		56	69	26	6	6	6	0	10
9/25/2015		56	69	26	6	6	6	0	10
9/26/2015		56	69	26	6	6	6	0	10
9/27/2015		56	69	26	6	6	6	0	10
9/28/2015		56	69	26	6	6	6	0	10
9/29/2015		56	69	26	6	6	6	0	10
9/30/2015		56	69	26	6	6	6	0	10
10/1/2015		0	0	0	0	0	0	0	0

Total

788

300

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