

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASJ**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/9/2015

API No. 15
15-023-20-111-0000

Company Rosewood Resources, Inc.		Lease R. Walter		Well Number #5	
County Cheyenne	Location NESW	Section 9	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7/18/1980		Plug Back Total Depth 1505'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1470'	Perforations 1454'	To 1468'
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) 1402'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 7-9	20 15 at 10:30	<input checked="" type="radio"/> (AM) <input type="radio"/> (PM)	Taken 7-10	20 15 at 10:45 <input checked="" type="radio"/> (AM) <input type="radio"/> (PM)
Well on Line:	Started 7-10	20 15 at 10:45	<input checked="" type="radio"/> (AM) <input type="radio"/> (PM)	Taken 7-11	20 15 at 11:30 <input checked="" type="radio"/> (AM) <input type="radio"/> (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter 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 _r) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _r) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						173	184.4				
Flow						44	58.4			24	

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
						18		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_g)² = 0.207
(P_d)² =

(P_c)² = _____ : (P_w)² = _____ : P_g = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _c) ² - (P _g) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _g 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" ----- 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 28 day of December, 20 15.

KCC WICHITA
Witness (if any) _____ For Company

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 R. Walter #5 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: 12/28/15

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Signature: *Jarrell Martin*
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.

W377

Water #5

St. Francis

St. Francis

Pumping Unit/Elec

July-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLS	REMARKS (Maximum length 110 characters)
7/1/2015		32	45	17	7.5	4.5	0	8	
7/2/2015		32	45	17	7.5	4.5	0	8	
7/3/2015		32	45	17	7.5	4.5	0	8	
7/4/2015		32	45	17	7.5	4.5	0	8	
7/5/2015		32	45	16	7.5	4.5	0	8	
7/6/2015		31	51	17	7.5	4.5	2	8	
7/7/2015		32	44	17	7.5	4.5	0	8	
7/8/2015		32	44	17	7.5	4.5	16	8	turn off p u
7/9/2015		58	44	0	7.5	4.5	24	0	
7/10/2015		173	106	0	7.5	4.5	14	0	
7/11/2015		87	94	7	7.5	4.5	0	0	
7/12/2015		59	80	22	7.5	4.5	0	0	turned PU back on
7/13/2015		39	66	19	7.5	4.5	0	8	
7/14/2015		32	48	18	7.5	4.5	0	8	
7/15/2015		32	43	17	7.5	4.5	0	8	
7/16/2015		32	45	17	7.5	4.5	0	8	
7/17/2015		32	44	17	7.5	4.5	0	8	
7/18/2015		31	44	17	7.5	4.5	0	8	
7/19/2015		31	44	18	7.5	4.5	0	8	
7/20/2015		31	44	18	7.5	4.5	0	8	
7/21/2015		32	54	16	7.5	4.5	2	8	
7/22/2015		31	45	18	7.5	4.5	0	8	
7/23/2015		31	44	17	7.5	4.5	0	8	
7/24/2015		31	44	17	7.5	4.5	0	8	
7/25/2015		31	44	17	7.5	4.5	0	8	
7/26/2015		31	44	17	7.5	4.5	0	8	
7/27/2015		31	44	17	7.5	4.5	0	8	
7/28/2015		30	44	17	7.5	4.5	0	8	
7/29/2015		30	43	17	7.5	4.5	0	8	
7/30/2015		30	43	18	7.5	4.5	0	8	
7/31/2015		30	43	18	7.5	4.5	0	8	

Total

494

216

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Walter #5

St. Francis

St. Francis

Pumping Unit/Elec

August-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2015		31	44	18	7.5	4.5	0	8	
8/2/2015		31	44	18	7.5	4.5	0	8	
8/3/2015		33	46	18	7.5	4.5	0	8	
8/4/2015		31	44	18	7.5	4.5	0	8	
8/5/2015		30	43	18	7.5	4.5	0	8	
8/6/2015		31	44	18	7.5	4.5	0	8	
8/7/2015		31	44	18	7.5	4.5	0	8	
8/8/2015		31	44	18	7.5	4.5	0	8	
8/9/2015		31	44	18	7.5	4.5	0	8	
8/10/2015		31	44	18	7.5	4.5	0	8	
8/11/2015		31	44	18	7.5	4.5	0	8	
8/12/2015		31	44	18	7.5	4.5	0	8	
8/13/2015		32	45	18	7.5	4.5	0	8	
8/14/2015		32	45	18	7.5	4.5	0	8	
8/15/2015		33	46	18	7.5	4.5	0	8	
8/16/2015		35	48	18	7.5	4.5	0	8	
8/17/2015		33	46	18	7.5	4.5	0	8	
8/18/2015		33	46	18	7.5	4.5	0	8	
8/19/2015		35	48	18	7.5	4.5	0	8	
8/20/2015		34	47	18	7.5	4.5	0	8	
8/21/2015		35	48	18	7.5	4.5	0	8	
8/22/2015		36	49	18	7.5	4.5	0	8	
8/23/2015		37	50	18	7.5	4.5	0	8	
8/24/2015		37	50	18	7.5	4.5	0	8	
8/25/2015		38	51	18	7.5	4.5	0	8	
8/26/2015		35	48	18	7.5	4.5	0	8	
8/27/2015		35	48	18	7.5	4.5	0	8	
8/28/2015		34	47	18	7.5	4.5	0	8	
8/29/2015		37	50	18	7.5	4.5	0	8	
8/30/2015		40	53	18	7.5	4.5	4	8	
8/31/2015		43	56	18	7.5	4.5	0	8	

Total

558

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W377

Walter #5

St. Francis

St. Francis

Pumping Unit/Elec

September-15

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2015		51	64	16	7.5	4.5	0	8	
9/2/2015		28	41	18	7.5	4.5	0	8	
9/3/2015		29	42	18	7.5	4.5	0	8	
9/4/2015		33	46	18	7.5	4.5	0	8	
9/5/2015		39	52	18	7.5	4.5	0	8	
9/6/2015		43	56	18	7.5	4.5	0	8	
9/7/2015		42	55	18	7.5	4.5	0	8	
9/8/2015		40	53	18	7.5	4.5	0	8	
9/9/2015		38	51	18	7.5	4.5	0	8	
9/10/2015		30	43	18	7.5	4.5	0	8	
9/11/2015		35	48	18	7.5	4.5	0	8	
9/12/2015		37	50	17	7.5	4.5	0	8	
9/13/2015		36	49	17	7.5	4.5	0	8	
9/14/2015		38	51	17	7.5	4.5	0	8	
9/15/2015		40	53	16	7.5	4.5	0	8	
9/16/2015		42	55	16	7.5	4.5	0	8	
9/17/2015		43	56	16	7.5	4.5	0	8	
9/18/2015		43	56	16	7.5	4.5	0	8	
9/19/2015		39	52	17	7.5	4.5	0	8	
9/20/2015		37	50	17	7.5	4.5	0	8	
9/21/2015		39	52	16	7.5	4.5	0	8	
9/22/2015		41	54	16	7.5	4.5	0	8	
9/23/2015		42	55	16	7.5	4.5	0	8	
9/24/2015		42	55	16	7.5	4.5	0	8	
9/25/2015		42	55	16	7.5	4.5	0	8	
9/26/2015		42	55	16	7.5	4.5	0	8	
9/27/2015		42	55	16	7.5	4.5	0	8	
9/28/2015		42	55	16	7.5	4.5	0	8	
9/29/2015		42	55	16	7.5	4.5	0	8	
9/30/2015		42	55	16	7.5	4.5	0	8	
10/1/2015		0	0	0	0	0	0	0	

Total

505

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