

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **OSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/14

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 (EW) 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 6-7 20 14 at 10:30		(AM) (PM) Taken 6-18 20 14 at 10:45		(AM) (PM)	
Well on Line: Started 6-22 20 14 at 10:45		(AM) (PM) Taken 6-23 20 14 at 11:30		(AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 360 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 ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						120	134.4				
Flow						33	47.4			360	

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
						14		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207 (P_d)² = _____

(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" ----- 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 12 day of December, 20 14.

Received *Jimmie Martens*

 Witness (if any) KANSAS CORPORATION COMMISSION For Company

For Commission **FEB 25 2015** Checked by
 CONSERVATION DIVISION
 WICHITA, KS

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: 12/12/14

Received
KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

Signature: Jannell Matney

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
 Walter #5
 St. Francis
 St. Francis
 Pumping Unit/Elec
 June-13~~4~~

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
6/1/2013	37	50		15	0	
6/2/2013	59	72		13	0	
6/3/2013	47	60		13	0	
6/4/2013	71	84		13	0	
6/5/2013	31	44		13	0	
6/6/2013	33	46		14	0	
6/7/2013	110	123		8	9	
6/8/2013	112	125		8	24	
6/9/2013	115	128		0	24	
6/10/2013	120	133		0	24	
6/11/2013	130	143		0	24	
6/12/2013	135	148		0	24	
6/13/2013	135	148		0	24	
6/14/2013	118	131		0	24	
6/15/2013	118	131		0	24	
6/16/2013	119	132		0	24	
6/17/2013	119	132		0	24	
6/18/2013	120	133		0	24	
6/19/2013	121	134		0	24	
6/20/2013	120	133		0	24	
6/21/2013	120	133		0	24	
6/22/2013	120	133		0	24	
6/23/2013	110	123		2	5	
6/24/2013	101	114		16	0	
6/25/2013	92	105		19	0	
6/26/2013	81	94		18	0	
6/27/2013	70	83		17	0	
6/28/2013	35	48		17	0	
6/29/2013	35	48		16	0	
6/30/2013	36	49		15	0	turned pu on auto
7/1/2013					0	

Total

217

0

Received
 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W377
 Walter #5
 St. Francis
 St. Francis
 Pumping Unit/Elec
 July-14

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2014	43	56		16	0	8
7/2/2014	41	54		16	0	9
7/3/2014	36	49		16	0	10
7/4/2014	36	49		16	0	9
7/5/2014	38	51		16	0	8
7/6/2014	38	51		16	0	9
7/7/2014	59	72		15	0	10
7/8/2014	39	52		15	0	10
7/9/2014	40	53		15	0	9
7/10/2014	41	54		14	0	8
7/11/2014	56	69		16	0	9
7/12/2014	45	58		14	0	10
7/13/2014	46	59		14	0	9
7/14/2014	49	62		14	0	8
7/15/2014	32	45		15	0	9
7/16/2014	32	45		15	0	10
7/17/2014	33	46		14	0	9
7/18/2014	33	46		14	0	9
7/19/2014	33	46		14	0	10
7/20/2014	32	45		14	0	8
7/21/2014	58	71		14	0	10
7/22/2014	112	125		0	22	9
7/23/2014	66	79		11	7	10
7/24/2014	39	52		15	3	9
7/25/2014	41	54		14	4	8
7/26/2014	32	45		12	0	8 started pumping unit
7/27/2014	33	46		14	0	9
7/28/2014	36	49		14	0	10
7/29/2014	42	55		14	0	9
7/30/2014	35	48		15	0	10
7/31/2014	38	51		14	0	9

Total

436

282

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 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W377
 Walter #5
 St. Francis
 St. Francis
 Pumping Unit/Elec
 August-14

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2014	35	48	14	7.5	7	7	0	8
8/2/2014	35	48	15	7.5	7	7	0	9
8/3/2014	36	49	14	7.5	7	7	0	10
8/4/2014	36	49	14	7.5	7	7	0	9
8/5/2014	36	49	14	7.5	7	7	0	8
8/6/2014	36	49	14	7.5	7	7	0	10
8/7/2014	37	50	14	7.5	7	7	0	9
8/8/2014	39	52	14	7.5	7	7	0	8
8/9/2014	39	52	14	7.5	7	7	0	9
8/10/2014	43	56	14	7.5	7	7	0	10
8/11/2014	37	50	14	7.5	7	7	0	10
8/12/2014	35	48	14	7.5	7	7	0	9
8/13/2014	36	49	14	7.5	7	7	0	9
8/14/2014	43	56	13	7.5	7	7	0	9
8/15/2014	41	54	13	7.5	7	7	3	9
8/16/2014	41	54	13	7.5	7	7	0	9
8/17/2014	43	56	14	7.5	7	7	0	9
8/18/2014	48	61	14	7.5	7	7	0	9
8/19/2014	48	61	14	7.5	7	7	2	9
8/20/2014	41	55	15	7.5	7	7	0	9
8/21/2014	41	55	15	7.5	7	7	0	9
8/22/2014	50	63	14	7.5	7	7	0	9
8/23/2014	34	47	14	7.5	7	7	0	10
8/24/2014	37	50	14	7.5	7	7	0	9
8/25/2014	57	70	14	7.5	7	7	0	9
8/26/2014	38	51	14	7.5	7	7	0	9
8/27/2014	43	56	14	7.5	7	7	0	9
8/28/2014	49	52	14	7.5	7	7	0	4.5
8/29/2014	34	47	12	7.5	7	7	5	4.5
8/30/2014	34	47	12	7.5	7	7	0	9
8/31/2014	49	62	13	7.5	7	7	0	9

Total

429

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FEB 25 2015

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 WICHITA, KS