

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **ESP**
 Deliverability

Test Date:
6/22/14

API No. 15
023-20663-0000

Company Rosewood Resources, Inc.		Lease R. Walter		Well Number 32-21	
County Cheyenne	Location SWNE	Section 21	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/12/2006		Plug Back Total Depth 1548'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1549'	Perforations 1370'	To 1402'
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 10:45		(AM)(PM) Taken 6-19	
Well on Line: Started 6-22		20 14 at 10:55		(AM)(PM) Taken 6-23	
				20 14 at 10:55 (AM)(PM)	
				20 14 at 11:45 (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 _i) or (P _o)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _o)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						121	135.4				
Flow						42	56.4			360	

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
						4		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_o)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_c = _____ % (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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 12 day of December, 20 14.

Received
KANSAS CORPORATION COMMISSION

Jennell Montoya
For Company

Witness (if any)

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 32-21 gas well on the grounds that said well:

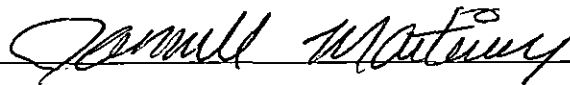
(Check one)

- 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: 
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.

W371

R Walter 32-21

St. Francis

St. Francis

Pumping Unit

June-13th

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
6/1/2013	42	55		4	0	
6/2/2013	64	77		4	0	
6/3/2013	51	64		4	0	turn on pumping unit
6/4/2013	74	87		3	0	
6/5/2013	37	50		4	0	
6/6/2013	39	52		4	0	turn off pumping unit
6/7/2013	99	112		3	9	
6/8/2013	105	118		3	24	
6/9/2013	107	120		0	24	
6/10/2013	99	112		0	24	
6/11/2013	109	122		0	24	
6/12/2013	114	127		0	24	
6/13/2013	115	128		0	24	
6/14/2013	116	129		0	24	
6/15/2013	116	129		0	24	
6/16/2013	118	131		0	24	
6/17/2013	118	131		0	24	
6/18/2013	120	133		0	24	
6/19/2013	121	134		0	24	
6/20/2013	121	134		0	24	
6/21/2013	121	134		0	24	
6/22/2013	121	134		0	24	
6/23/2013	113	126		1	5	
6/24/2013	104	117		4	0	
6/25/2013	96	109		5	0	
6/26/2013	82	95		6	0	
6/27/2013	74	87		5	0	
6/28/2013	42	55		5	0	
6/29/2013	40	53		5	0	
6/30/2013	42	55		4	0	started pu on auto
7/1/2013					0	

Total

64

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CONSERVATION DIVISION
WICHITA, KS

W371

R Walter 32-21

St. Francis

St. Francis

Pumping Unit

July-14

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2014	42	55		4	0	5
7/2/2014	42	55		4	0	6
7/3/2014	42	55		4	0	7
7/4/2014	42	55		4	0	6
7/5/2014	44	57		4	0	5
7/6/2014	44	57		4	0	6
7/7/2014	63	76		4	0	7
7/8/2014	45	58		4	0	5
7/9/2014	46	59		4	0	6
7/10/2014	47	60		4	0	7
7/11/2014	49	62		4	0	6
7/12/2014	50	63		4	0	5
7/13/2014	51	64		4	0	6
7/14/2014	54	67		4	0	7
7/15/2014	40	53		4	0	6
7/16/2014	40	53		4	0	5
7/17/2014	39	52		4	0	5
7/18/2014	40	53		4	0	7
7/19/2014	40	53		4	0	6
7/20/2014	38	51		4	0	6
7/21/2014	44	57		4	0	5
7/22/2014	98	111		0	22	6
7/23/2014	70	83		2	7	7
7/24/2014	45	58		5	3	6
7/25/2014	47	60		5	4	5
7/26/2014	38	51		4	0	6 started pumping unit
7/27/2014	39	52		4	0	7
7/28/2014	42	55		4	0	5
7/29/2014	47	60		4	0	6
7/30/2014	41	54		4	0	7
7/31/2014	44	57		4	0	6

Total

120

185

Received
KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION
WICHITA, KS

W371
 R Walter 32-21
 St. Francis
 St. Francis
 Pumping Unit
 August-14

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2014	42	55	4	6	5	0	5	
8/2/2014	42	55	4	6	5	0	5	
8/3/2014	42	55	4	6	5	0	5	
8/4/2014	42	55	4	6	5	0	5	
8/5/2014	42	55	4	6	5	0	5	
8/6/2014	42	55	4	6	5	0	7	
8/7/2014	43	56	4	6	5	0	7	
8/8/2014	45	58	4	6	5	0	7	4.5 min BT
8/9/2014	45	58	4	6	5	0	7	
8/10/2014	48	61	4	6	5	0	5	
8/11/2014	43	56	4	6	5	0	5	
8/12/2014	42	55	5	6	5	0	5	
8/13/2014	42	55	5	6	5	0	5	
8/14/2014	41	54	4	6	5	0	7	
8/15/2014	48	61	3	6	5	3	7	
8/16/2014	46	59	3	6	5	0	7	
8/17/2014	46	59	3	6	5	0	7	
8/18/2014	48	61	4	6	5	0	7	
8/19/2014	53	66	4	6	5	2	7	
8/20/2014	53	66	4	6	5	0	7	
8/21/2014	47	60	4	6	5	0	7	
8/22/2014	52	65	4	6	5	0	7	
8/23/2014	40	53	4	6	5	0	7	
8/24/2014	43	56	4	6	5	0	7	
8/25/2014	60	73	4	6	5	0	5	
8/26/2014	44	57	4	6	5	0	5	
8/27/2014	47	60	4	6	5	0	5	
8/28/2014	39	52	5	6	5	0	2.5	
8/29/2014	40	53	3	6	5	5	2.5	
8/30/2014	40	53	3	6	5	0	5	
8/31/2014	53	66	4	6	5	0	5	

Total

122

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