

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow SI
 Deliverability

Test Date:
7/9/2015

API No. 15
023-20630-0000

Company Rosewood Resources, Inc.		Lease R. Walter		Well Number 33-21	
County Cheyenne	Location NWSE/4	Section 21	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/22/2005		Plug Back Total Depth 1521'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1521'	Perforations 1385'	To 1417'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production		Pump Unit or Traveling Plunger? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1417'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-9 20 15 at 9:55 (AM) (PM)		Taken 7-10 20 15 at 10:55 (AM) (PM)			
Well on Line: Started 7-10 20 15 at 10:55 (AM) (PM)		Taken 7-11 20 15 at 11:40 (AM) (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 _f) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _f) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						173	187.4				
Flow						50	64.4			24	0

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 _{ev}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						0		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.207
(P_d)² =

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

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	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 28 day of December, 20 15.

Witness (if any)

KCC WICHITA

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 R. Walter 33-21 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: 12/28/15

KCC WICHITA
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Signature: *Jamall 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.

W365

R/Walter 33-21

St. Francis

St. Francis

None

July-15

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
7/1/2015	84	97	0	0	shut in
7/2/2015	84	97	0	0	
7/3/2015	84	97	0	0	
7/4/2015	84	97	0	0	
7/5/2015	84	97	0	0	
7/6/2015	84	97	0	2	
7/7/2015	84	74	0	0	opened at 3 mcf
7/8/2015	47	52	0	16	
7/9/2015	71	145	0	24	
7/10/2015	173	185	0	14	
7/11/2015	93	165	0	0	
7/12/2015	64	85	0	0	
7/13/2015	48	72	0	0	
7/14/2015	42	57	0	0	
7/15/2015	42	55	0	0	
7/16/2015	42	55	0	0	
7/17/2015	42	55	0	0	
7/18/2015	41	55	0	0	
7/19/2015	41	55	0	0	
7/20/2015	41	54	0	0	
7/21/2015	45	68	0	2	
7/22/2015	44	57	0	0	
7/23/2015	44	56	0	0	
7/24/2015	44	56	0	0	
7/25/2015	44	56	0	0	
7/26/2015	44	57	0	0	
7/27/2015	43	55	0	0	
7/28/2015	43	55	0	0	
7/29/2015	42	54	0	0	
7/30/2015	42	54	0	0	
7/31/2015	42	55	0	0	

Total

0

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R. Waller 33-211

St. Francis

St. Francis

None

August-15

DATE	Casing		HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF	DOWN		
8/1/2015	43	56	0	0	
8/2/2015	42	55	0	0	
8/3/2015	44	57	0	0	
8/4/2015	42	55	0	0	
8/5/2015	41	54	0	0	
8/6/2015	42	55	0	0	
8/7/2015	42	55	0	0	
8/8/2015	42	55	0	0	
8/9/2015	42	55	0	0	
8/10/2015	42	55	0	0	
8/11/2015	42	55	0	0	
8/12/2015	42	55	0	0	
8/13/2015	42	55	0	0	
8/14/2015	43	56	0	0	
8/15/2015	43	56	0	0	
8/16/2015	45	58	0	0	
8/17/2015	43	56	0	0	
8/18/2015	43	56	0	0	
8/19/2015	45	58	0	0	
8/20/2015	44	57	0	0	
8/21/2015	45	58	0	0	
8/22/2015	45	58	0	0	
8/23/2015	46	59	0	0	
8/24/2015	46	59	0	0	
8/25/2015	47	60	0	0	
8/26/2015	47	60	0	0	
8/27/2015	46	59	0	0	
8/28/2015	44	57	0	0	
8/29/2015	46	59	0	0	
8/30/2015	49	62	0	4	
8/31/2015	51	64	0	0	

Total

0

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R. Walter 33-218

St. Francis

St. Francis

None

September-15

DATE	Casing		HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF	DOWN		
9/1/2015	63	76	0	0	
9/2/2015	38	51	0	0	
9/3/2015	37	50	0	0	
9/4/2015	40	53	0	0	
9/5/2015	45	58	0	0	
9/6/2015	49	62	0	0	
9/7/2015	48	61	0	0	
9/8/2015	47	60	0	0	
9/9/2015	51	64	0	0	
9/10/2015	39	52	0	0	
9/11/2015	42	55	0	0	
9/12/2015	45	58	0	0	
9/13/2015	44	57	0	0	
9/14/2015	45	58	0	0	
9/15/2015	47	60	0	0	
9/16/2015	48	61	0	0	
9/17/2015	50	63	0	0	
9/18/2015	50	63	0	0	
9/19/2015	47	60	0	0	
9/20/2015	44	57	0	0	
9/21/2015	46	59	0	0	
9/22/2015	48	61	0	0	
9/23/2015	49	62	0	0	
9/24/2015	49	62	0	0	
9/25/2015	49	62	0	0	
9/26/2015	49	62	0	0	
9/27/2015	49	62	0	0	
9/28/2015	49	62	0	0	
9/29/2015	49	62	0	0	
9/30/2015	49	62	0	0	
10/1/2015	0	0	0	0	

Total

0

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