

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow *AST*
 Deliverability

(See Instructions on Reverse Side)

Test Date:
5/8/2013

API No. 15
023-20631-0000

Company Rosewood Resources, Inc.			Lease Rudolph		Well Number 33-09
County Cheyenne	Location NWSE/4	Section 9	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 10/21/2005		Plug Back Total Depth 1540'	Packer Set at		
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1540'	Perforations 1421'	To 1453'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No flowing		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6	
Vertical Depth(H) 1453'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-7		20 13	at 10:15	(AM) (PM) Taken 5-8	20 13
Well on Line: Started 5-8		20 13	at 10:30	(AM) (PM) Taken 5-9	20 13
					at 10:30 (AM) (PM)
					at 11:15 (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (P _m)	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						134	148.4				
Flow						52	66.4			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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m
						12		

(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 (Mcf/d)

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 21 day of November, 20 13.

Witness (if any)

For Commission

Samuel Martinez

For Company **KCC WICHITA**

Checked by
DEC 26 2013

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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 Rudolph 33-9 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: 11/21/13

Signature: Jannell Martiney
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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W441
 Rudolph 33-9
 St. Francis
 St. Francis
 None
 May-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
5/1/2013	47	60		12	
5/2/2013	53	66		11	
5/3/2013	45	58		12	
5/4/2013	40	53		12	
5/5/2013	41	54		12	
5/6/2013	41	54		11	
5/7/2013	35	48		12	si for state test - cp 44
5/8/2013	42	55		0	24 reopened - cp 134
5/9/2013	50	63		17	
5/10/2013	51	64		13	
5/11/2013	51	64		13	
5/12/2013	49	62		12	
5/13/2013	52	65		12	
5/14/2013	54	67		12	
5/15/2013	98	111		11	2.5
5/16/2013	95	108		11	
5/17/2013	65	78		15	
5/18/2013	45	58		12	
5/19/2013	56	69		12	
5/20/2013	52	65		12	
5/21/2013	34	47		13	
5/22/2013	47	60		12	14
5/23/2013	132	145		12	10
5/24/2013	107	120		11	4
5/25/2013	93	106		16	
5/26/2013	82	95		12	
5/27/2013	79	92		12	
5/28/2013	70	83		12	
5/29/2013	57	70		12	
5/30/2013	44	57		12	
5/31/2013	37	50		11	

Total 369

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W441
 Rudolph 33-9
 St. Francis
 St. Francis
 None
 June-13

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
6/1/2013	31	44	12	
6/2/2013	39	52	10	
6/3/2013	40	53	13	
6/4/2013	36	49	12	
6/5/2013	56	69	11	
6/6/2013	44	57	11	calibrate meter
6/7/2013	40	53	12	
6/8/2013	42	55	11	
6/9/2013	40	53	12	
6/10/2013	41	54	12	2
6/11/2013	67	80	10	1
6/12/2013	68	81	10	
6/13/2013	47	60	12	
6/14/2013	58	61	11	
6/15/2013	47	60	11	
6/16/2013	49	62	12	
6/17/2013	59	72	12	
6/18/2013	39	52	12	
6/19/2013	33	46	12	
6/20/2013	38	51	12	
6/21/2013	45	58	11	
6/22/2013	61	74	11	
6/23/2013	72	85	10	
6/24/2013	70	83	12	
6/25/2013	72	85	12	
6/26/2013	71	84	12	
6/27/2013	59	72	12	
6/28/2013	42	55	12	
6/29/2013	38	51	12	
6/30/2013	40	53	12	
7/1/2013				

Total 346

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W441
 Rudolph 33-9
 St. Francis
 St. Francis
 None
 July-13

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
7/1/2013	42	55	11	
7/2/2013	40	53	12	
7/3/2013	43	56	11	
7/4/2013	43	56	11	
7/5/2013	47	60	11	
7/6/2013	46	59	12	
7/7/2013	56	69	11	
7/8/2013	58	71	11	
7/9/2013	57	70	11	
7/10/2013	46	59	12	
7/11/2013	47	60	12	
7/12/2013	53	66	12	
7/13/2013	64	77	13	2.5
7/14/2013	66	79	12	
7/15/2013	45	58	13	
7/16/2013	45	58	11	
7/17/2013	60	73	12	
7/18/2013	63	76	11	
7/19/2013	65	78	11	
7/20/2013	65	78	11	
7/21/2013	64	77	11	
7/22/2013	65	78	11	
7/23/2013	56	69	12	
7/24/2013	63	76	12	
7/25/2013	67	80	10	
7/26/2013	50	63	13	
7/27/2013	47	60	13	
7/28/2013	44	57	11	
7/29/2013	44	57	11	
7/30/2013	43	56	11	3.5
7/31/2013	91	104	10	5.5

Total 356

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