

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **RIS**
 Deliverability

Test Date:
8/19/2012

API No. 15
15-023-20564-0000

Company Rosewood Resources		Lease Isernhagen		Well Number 1-23	
County Cheyenne	Location SWSW	Section 23	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 9/10/2004		Plug Back Total Depth 1528'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1576'	Perforations 980'	To 1010'
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	Gas Gravity - G _g .6	
Vertical Depth(H) 1010'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-18		20 12	at 11:25	(AM) (PM) Taken 8-19	20 12
Well on Line: Started 8-19		20 12	at 11:35	(AM) (PM) Taken 8-20	20 12
					at 1:25 (AM) (PM)

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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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						150	164.4				
Flow						56	70.4			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 _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						27		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² =

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

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

Witness (if any)

For Commission



For Company

Checked by

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Form G-2
(Rev. 7/03)

KCC WICHITA

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.

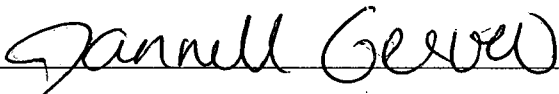
I hereby request a one-year exemption from open flow testing for the Isernhagen 1-23 gas well on the grounds that said well:

(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: 12/19/12

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.

W350
 Isernhagen 01-23
 St. Francis
 St. Francis
 Pumping Unit/Elec
 August-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012		54	67	19	7	19	24	24	
8/2/2012		57	70	20	7	19		23	6 min bt
8/3/2012		57	70	20	7	19		24	
8/4/2012		56	69	21	7	19		23	
8/5/2012		58	71	21	7	19		22	
8/6/2012		55	68	21	7	19		21	
8/7/2012		60	73	21	7	19		25	5.5 min bt
8/8/2012		59	72	21	7	19		26	
8/9/2012		58	71	21	7	19		25	
8/10/2012		70	83	20	7	19		24	
8/11/2012		57	70	22	7	19	1.5	23	
8/12/2012		55	68	21	7	19		24	
8/13/2012		54	67	21	7	19		25	
8/14/2012		53	66	21	7	19		25	5.5 min bt greased
8/15/2012		68	81	21	7	19		21	
8/16/2012		55	68	21	7	19		22	
8/17/2012		51	64	21	7	19		23	
8/18/2012		61	74	21	7	9.5		10	si for state test cp-56
8/19/2012		ISO	65	0	7	9.5	24	10	reopened cp-150
8/20/2012		56	69	30	7	19		22	
8/21/2012		55	68	32	7	19		26	5.25 min bt
8/22/2012		54	67	30	7	19		24	
8/23/2012		56	69	29	7	19		22	
8/24/2012		57	70	28	7	19		23	
8/25/2012		57	70	28	7	19		24	
8/26/2012		56	69	28	7	19		23	
8/27/2012		56	69	28	7	19		25	
8/28/2012		53	66	27	7	19		27	
8/29/2012		58	71	27	7	19		26	5.25 min bt
8/30/2012		57	70	27	7	19		25	
8/31/2012		57	70	27	7	19		27	

Total

715

714

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Isernhagen 01-23

St. Francis

St. Francis

Pumping Unit/Elec

September-12

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI								
9/1/2012		58	71	27	7	19			26	
9/2/2012		57	70	26	7	19			25	
9/3/2012		58	71	27	7	19			22	
9/4/2012		56	69	23	7	19		1	26	
9/5/2012		72	85	22	7	19			24	
9/6/2012		56	69	23	7	10			27	5 min bt, pu off hfp
9/7/2012		144	157	9	7	0		19	0	
9/8/2012		148	161	0	7	0		24	0	
9/9/2012		150	163	0	7	0		24	0	
9/10/2012		152	165	0	7	0		24	0	
9/11/2012		154	167	0	7	0		24	0	
9/12/2012		155	168	0	7	0		24	0	
9/13/2012		112	125	26	7	0		10	0	
9/14/2012		101	114	27	7	0			0	
9/15/2012		5	108	23	7	0			0	
9/16/2012		92	105	21	7	0			0	
9/17/2012		79	92	20	7	0			0	
9/18/2012		59	72	20	7	10			14	restart pu
9/19/2012		77	90	20	7	10			14	pu off hfp
9/20/2012		50	63	20	7	10			14	restart pu
9/21/2012		52	65	21	7	19			28	
9/22/2012		52	65	22	7	19			27	
9/23/2012		53	66	22	7	19			26	
9/24/2012		57	70	23	7	19			25	
9/25/2012		60	73	23	7	19			27	
9/26/2012		59	72	23	7	19			26	5.25 min bt
9/27/2012		68	81	23	7	19			25	
9/28/2012		59	72	23	7	19			28	
9/29/2012		59	72	23	7	19			25	
9/30/2012		59	72	23	7	19			26	
10/1/2012										

Total

560

455

W350

Isernhagen 01-23

St. Francis

St. Francis

Pumping Unit/Elec

October-12

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JAN 03 2013

KCC WICHITA

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	Water	REMARKS
	PSI	PSI							
10/1/2012	60	73	24	7	19		26		
10/2/2012	60	73	24	7	19		25		
10/3/2012	60	73	24	7	19		26	5.25 min bt	
10/4/2012	57	70	24	7	19		22		
10/5/2012	58	71	24	7	19		26		
10/6/2012	57	70	24	7	19		25		
10/7/2012	58	71	24	7	19		24		
10/8/2012	59	72	24	7	19		25		
10/9/2012	58	71	24	7	19		26		
10/10/2012	59	72	24	7	19		23	6 min bt greased	
10/11/2012	60	73	24	7	19		22		
10/12/2012	59	72	24	7	19		24		
10/13/2012	59	72	24	7	19		21		
10/14/2012	62	75	24	7	19		20		
10/15/2012	59	72	24	7	19		24		
10/16/2012	64	77	24	7	19	1	23	6 min bt	
10/17/2012	58	71	24	7	19		21		
10/18/2012	58	71	24	7	19		23		
10/19/2012	60	73	24	7	19		22		
10/20/2012	58	71	22	7	19		21		
10/21/2012	59	72	20	7	19		22		
10/22/2012	59	72	22	7	19		23		
10/23/2012	57	70	18	7	9.5		12	pu off reset pwr restart	
10/24/2012	56	69	18	7	19		22		
10/25/2012	53	66	17	7	19		21		
10/26/2012	57	70	18	7	19		22	6.25 min bt	
10/27/2012	55	68	20	7	19		23		
10/28/2012	55	68	21	7	19		22		
10/29/2012	69	82	21	7	9.5	2	11	pu off hfp	
10/30/2012	72	85	20	7	0		0		
10/31/2012	53	66	18	7	9.5		11	restart pu	

Total

691

658