

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **BSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/19/2012

API No. 15
023-20608-0000

Company Rosewood Resources, Inc.		Lease Isernhagen		Well Number 4-23	
County Cheyenne	Location SWSE/4	Section 23	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 5/27/2005		Plug Back Total Depth 1449'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1449'	Perforations 1250'	To 1282'
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="checkbox"/> Yes / No Pumping Unit		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6	
Vertical Depth(H) 1282'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 8-18	20 12	at 8:15	(AM)(PM) Taken 8-19	20 12
					at 8:30 (AM)(PM)
Well on Line:	Started 8-19	20 12	at 8:30	(AM)(PM) Taken 8-20	20 12
					at 9:15 (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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						119	133.4				
Flow						55	69.4			24	0

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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						26		

(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: 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 (Mcf/d)

Open Flow Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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)

Janell Oliver
For Company

For Commission

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 4-23 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.

W355

Isernhagen 04-23

St. Francis

St. Francis

None

August-12

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DATE	Tubing Casing		STATIC MCF	SPM	HRS	CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2012		55	68	25	6	9	16	
8/2/2012		58	71	26	6	9	18	3.5 min bt
8/3/2012		57	70	26	6	9	19	
8/4/2012		57	70	26	6	9	20	
8/5/2012		59	72	26	6	9	21	
8/6/2012		55	68	26	6	9	22	
8/7/2012		61	74	26	6	9	17	3.75 min bt
8/8/2012		59	72	26	6	9	17	
8/9/2012		59	72	26	6	9	17	
8/10/2012		71	84	25	6	9	16	
8/11/2012		57	70	25	6	9	1.5	17
8/12/2012		56	69	25	6	9	18	
8/13/2012		55	68	26	6	9	17	
8/14/2012		53	66	26	6	9	18	3.5 min bt greased
8/15/2012		68	81	26	6	9	14	
8/16/2012		56	69	26	6	9	12	
8/17/2012		52	65	26	6	9	11	
8/18/2012		61	74	26	6	4.5		5 si for state test cp-61
8/19/2012		119	65	0	6	4.5	24	5 reopened cp-119
8/20/2012		55	68	29	6	9	10	
8/21/2012		54	67	31	6	9	16	4 min bt
8/22/2012		54	67	30	6	9	14	
8/23/2012		57	70	30	6	9	12	
8/24/2012		61	74	27	6	9	15	
8/25/2012		61	74	27	6	9	16	
8/26/2012		60	73	27	6	9	15	
8/27/2012		57	70	27	6	9	14	
8/28/2012		56	69	28	6	9	13	
8/29/2012		57	70	28	6	9	16	
8/30/2012		58	71	28	6	9	16	4 min bt
8/31/2012		57	70	28	6	9	15	

Total

804

472

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Isernhagen 04-23

St. Francis

St. Francis

None

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		57	70	28	6	9			16	
9/2/2012		58	71	28	6	9			17	
9/3/2012		57	70	28	6	9			15	
9/4/2012		57	70	28	6	9		1	14	
9/5/2012		73	86	25	6	9			17	
9/6/2012		57	70	26	6	5			17	3.75 min bt, pu off hfp
9/7/2012		116	129	6	6	0		19	0	
9/8/2012		120	133	0	6	0		24	0	
9/9/2012		122	135	0	6	0		24	0	
9/10/2012		126	139	9	6	0		24	0	
9/11/2012		128	141	0	6	0		24	0	
9/12/2012		127	140	0	6	0		24	0	
9/13/2012		112	125	9	6	0		10	0	
9/14/2012		102	115	29	6	0			0	
9/15/2012		96	109	36	6	0			0	
9/16/2012		93	106	34	6	0			0	
9/17/2012		81	94	31	6	0			0	
9/18/2012		59	72	26	6	5			8	restart pu
9/19/2012		78	91	24	6	5			8	pu off hfp
9/20/2012		50	63	24	6	5			8	restart pu
9/21/2012		52	65	25	6	9			17	
9/22/2012		52	65	25	6	9			18	
9/23/2012		53	66	26	6	9			17	
9/24/2012		57	70	25	6	9			17	
9/25/2012		61	74	25	6	9			16	
9/26/2012		60	73	26	6	9			20	3.25 min bt
9/27/2012		68	81	25	6	9			15	
9/28/2012		61	74	26	6	9			16	
9/29/2012		61	74	26	6	9			15	
9/30/2012		60	73	26	6	9			20	
10/1/2012										

Total

646

291

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Isernhagen 04-23

St. Francis

St. Francis

None

October-12

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water	REMARKS
	PSI	PSI								
10/1/2012		61	74	26	6	9			16	
10/2/2012		60	73	26	6	9			17	
10/3/2012		60	73	26	6	9			16	3.25 min bt
10/4/2012		58	71	27	6	9			15	
10/5/2012		59	72	27	6	9			16	
10/6/2012		58	71	27	6	9			17	
10/7/2012		58	71	27	6	9			16	
10/8/2012		59	72	27	6	9			16	
10/9/2012		58	71	28	6	9			15	
10/10/2012		60	73	27	6	9			18	3.5 min bt greased
10/11/2012		60	73	27	6	9			15	
10/12/2012		60	73	27	6	9			19	
10/13/2012		59	72	27	6	9			18	
10/14/2012		63	76	11	6	9			17	
10/15/2012		60	73	27	6	9			17	
10/16/2012		64	77	26	6	9		1	16	3.25 min bt
10/17/2012		59	72	25	6	9			20	
10/18/2012		58	71	26	6	9			19	
10/19/2012		60	73	12	6	9			17	flowing 24
10/20/2012		58	71	26	6	9			16	
10/21/2012		60	73	26	6	9			15	
10/22/2012		60	73	26	6	9			16	
10/23/2012		58	71	26	6	9			18	
10/24/2012		57	70	27	6	9			17	
10/25/2012		55	68	27	6	9			16	
10/26/2012		59	72	26	6	9			16	3.25 min bt
10/27/2012		57	70	27	6	9			18	
10/28/2012		57	70	27	6	9			19	
10/29/2012		70	83	27	6	4.5		2	8	pu off hfp
10/30/2012		73	86	23	6	0			0	
10/31/2012		54	67	23	6	4.5			8	restart pu

Total

787

487