

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **ASST**
 Deliverability

Test Date:
7/6/2012

API No. 15
15-023-20587-0000

Company Rosewood Resources		Lease Isernhagen		Well Number 2-23	
County Cheyenne	Location NWSE	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 1508'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1514'	Perforations 1316'	To 1352'
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? Pumping Unit NO	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1352'		Pressure Taps Flange		Gas Gravity - G _g .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 7-5	20 12 at 8:25	(AM) (PM)	Taken 7-6	20 12 at 8:40 (AM) (PM)
Well on Line:	Started 7-6	20 12 at 8:40	(AM) (PM)	Taken 7-7	20 12 at 9:25 (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						127	141.4				
Flow						57	71.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _d) (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
						49		

(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)

Garrett Geved
For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

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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.

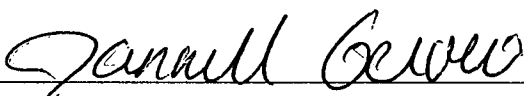
I hereby request a one-year exemption from open flow testing for the Isernhagen 2-23 gas well on the grounds that said well:

(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.

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Isernhagen 02-23

St. Francis

St. Francis

None

July-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2012		66	79	51	6.5	10	14	
7/2/2012		56	69	52	6.5	10	3	13
7/3/2012		75	88	47	6.5	5		7 pu off hfp
7/4/2012		54	67	48	6.5	5		7 restart pu
7/5/2012		53	66	47	6.5	5		7 cp 55 si for state test
7/6/2012		127	75	0	6.5	5	24	7 cp 127 opened
7/7/2012		57	70	53	6.5	10		13 5 min bt greased
7/8/2012		61	74	59	6.5	10		12
7/9/2012		59	72	57	6.5	10		13
7/10/2012		59	72	56	6.5	10		16
7/11/2012		56	69	56	6.5	10		15
7/12/2012		56	69	56	6.5	10		14
7/13/2012		55	68	55	6.5	10		14
7/14/2012		55	68	55	6.5	10		13
7/15/2012		56	69	55	6.5	10		12
7/16/2012		67	80	51	6.5	5	1.5	6 pu off hfp
7/17/2012		56	69	50	6.5	5		6 restart pu
7/18/2012		52	65	49	6.5	10		12
7/19/2012		59	72	50	6.5	10	0.5	13
7/20/2012		61	74	50	6.5	10		14 5 min bt
7/21/2012		64	77	51	6.5	10		13
7/22/2012		58	71	51	6.5	10	0.5	11
7/23/2012		63	76	51	6.5	10		16 4.5 min bt
7/24/2012		67	80	50	6.5	10		15
7/25/2012		55	68	52	6.5	10		14
7/26/2012		84	97	49	6.5	5	5	7 shut pumping unit off hfp
7/27/2012		68	81	52	6.5	0		0
7/28/2012		68	81	53	6.5	0		0
7/29/2012		54	69	46	6.5	5		8 started pumping unit
7/30/2012		53	66	46	6.5	10		16
7/31/2012		53	66	48	6.5	10		17

Total

1546

345

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Isernhagen 02-23

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		54	67	49	6.5	10	16	
8/2/2012		57	70	49	6.5	10	14	5 min bt
8/3/2012		56	69	49	6.5	10	13	
8/4/2012		55	68	50	6.5	10	12	
8/5/2012		58	71	50	6.5	10	11	
8/6/2012		55	68	50	6.5	10	14	
8/7/2012		61	74	50	6.5	10	19	3.75 min bt
8/8/2012		58	71	51	6.5	10	20	
8/9/2012		57	70	51	6.5	10	19	
8/10/2012		58	71	50	6.5	10	18	
8/11/2012		58	71	50	6.5	10	1.5	19
8/12/2012		59	72	51	6.5	10	20	
8/13/2012		53	66	51	6.5	10	20	
8/14/2012		53	66	51	6.5	10	14	5 min bt greased
8/15/2012		59	72	51	6.5	10	19	
8/16/2012		54	67	51	6.5	10	20	
8/17/2012		52	65	51	6.5	10	19	
8/18/2012		52	65	51	6.5	10	21	
8/19/2012		53	66	51	6.5	10	20	
8/20/2012		53	66	51	6.5	10	21	
8/21/2012		62	75	51	6.5	10	18	meter read 0 for mcf 4 min bt
8/22/2012		53	66	52	6.5	10	20	chg battery
8/23/2012		54	67	50	6.5	10	19	
8/24/2012		60	73	51	6.5	10	18	
8/25/2012		60	73	51	6.5	10	19	
8/26/2012		61	74	51	6.5	10	20	
8/27/2012		58	71	51	6.5	10	19	
8/28/2012		55	68	51	6.5	10	17	
8/29/2012		57	70	51	6.5	10	21	
8/30/2012		57	70	51	6.5	10	19	3.75 min bt
8/31/2012		56	69	51	6.5	10	21	

Total

1569

560

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Isernhagen 02-23

St. Francis

St. Francis

None

September-12

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JAN 03 2013

KCC WICHITA

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
9/1/2012		56	69	51	6.5	10		18	
9/2/2012		56	69	51	6.5	10		20	
9/3/2012		56	69	51	6.5	10		18	4 min bt
9/4/2012		56	69	51	6.5	10	1	19	
9/5/2012		73	86	49	6.5	10		21	
9/6/2012		55	68	51	6.5	5		11	pu off hfp
9/7/2012		167	170	14	6.5	0	19	0	
9/8/2012		170	183	0	6.5	0	24	0	
9/9/2012		172	185	0	6.5	0	24	0	
9/10/2012		175	188	0	6.5	0	24	0	
9/11/2012		182	195	0	6.5	0	24	0	
9/12/2012		184	197	0	6.5	0	24	0	
9/13/2012		111	124	24	6.5	0	10	0	
9/14/2012		101	114	64	6.5	0		0	
9/15/2012		93	106	76	6.5	0		0	
9/16/2012		91	104	70	6.5	0		0	
9/17/2012		78	91	60	6.5	0		0	
9/18/2012		59	72	51	6.5	5		9	restart pu
9/19/2012		78	91	48	6.5	5		9	pu off hfp
9/20/2012		50	63	49	6.5	5		9	restart pu
9/21/2012		51	64	49	6.5	10		18	
9/22/2012		51	64	50	6.5	10		19	
9/23/2012		51	64	50	6.5	10		20	
9/24/2012		56	69	51	6.5	10		21	
9/25/2012		59	72	51	6.5	10		20	
9/26/2012		58	71	51	6.5	10		18	4 min bt
9/27/2012		57	80	51	6.5	10		18	
9/28/2012		59	72	52	6.5	10		16	
9/29/2012		59	72	52	6.5	10		15	
9/30/2012		59	72	52	6.5	10		18	
10/1/2012									

Total

1269

317