

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **SI**
 Deliverability

Test Date:
8/4/2008

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? Yes <input checked="" type="checkbox"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1352'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-4 20 08 at 9:55 (AM) (PM) Taken 8-5 20 08 at 10:40 (AM) (PM)					
Well on Line: Started 8-5 20 08 at 10:40 (AM) (PM) Taken 8-6 20 08 at 10:55 (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in **24** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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 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						71	85.4				
Flow						73	87.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (F _s) 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
						50		

(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 - (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 (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 **11** day of **December**, 20 **08**

Witness (if any)

For Commission

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JAN 29 2009

CONSERVATION DIVISION
WICHITA, KS

Wayne Mabe
For Company

Checked by

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SEP 18 2009

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 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: 12/11/08

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WICHITA, KS

Signature: Wayne Mahan

Title: Production Foreman

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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W353
 Isernhagen 02-23
 St. Francis
 St. Francis
 None
 August-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2008		57		22	0
8/2/2008		57		22	0
8/3/2008		64		21	0
8/4/2008		60		21	0
8/5/2008	71	58		21	0 shut in for test
8/6/2008	73	60		1	24 open
8/7/2008		60		38	0
8/8/2008		57		21	0
8/9/2008		60		21	0
8/10/2008		57		21	0
8/11/2008		61		25	0
8/12/2008		61		25	0
8/13/2008		58		24	0
8/14/2008		59		24	0
8/15/2008		59		24	0
8/16/2008		57		24	0
8/17/2008		57		24	0
8/18/2008		59		24	0
8/19/2008		61		23	0
8/20/2008		61		23	0 Put on PU @ 6.5spm/ 24hrs@ 2:40PM
8/21/2008		69		31	0 bucket test 4.5 min 38
8/22/2008		76		44	0
8/23/2008		78		51	0 bucket test 4 min 43
8/24/2008		76		50	0
8/25/2008		76		51	0 bucket test 4 min 43
8/26/2008		76		63	0
8/27/2008		78		66	0
8/28/2008		88		69	0 PUMP OFF HFP
8/29/2008		65		63	0 pump off
8/30/2008		49		63	0 pump off
8/31/2008		59		45	0 pump off

Total

1045

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W353
 Isernhagen 02-23
 St. Francis
 St. Francis
 None
 September-08

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)	
9/1/2008		58		42	0	
9/2/2008		54		40	0	
9/3/2008		52		38	0 started pumping unit	
9/4/2008		58		50	0 bucket test 4 min 6.5 strokes 24 hrs on 43 bbls	
9/5/2008		61		61	0	43
9/6/2008		160		55	14.5 PU off HFP	
9/7/2008		91		46	0 PU off HFP	
9/8/2008		55		53	0 PU off HFP	
9/9/2008		55		47	0 restart pump	
9/10/2008		60		58	0	43
9/11/2008		71		67	0 bucket test 4 min 6.5 strokes 24 hrs on 43 bbls	
9/12/2008		85		70	0	43
9/13/2008		99		73	0 put timer on 2 hrs 4 bbls	
9/14/2008		55		68	0	
9/15/2008		55		68	0	4
9/16/2008		56		52	0	4
9/17/2008		56		49	0	4
9/18/2008		58		47	0	4
9/19/2008		51		46	0	4
9/20/2008		51		45	0	4
9/21/2008		50		44	0	4
9/22/2008		50		43	0	4
9/23/2008		49		42	0 bucket test 4 min greased 4	
9/24/2008		53		42	0	4
9/25/2008		53		42	0	4
9/26/2008		54		41	0	4
9/27/2008		54		40	0	4
9/28/2008		54		40	0	4
9/29/2008		54		40	0	4
9/30/2008		54		40	0	4
10/1/2008					0	

Total

1489

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W353
 Isernhagen 02-23
 St. Francis
 St. Francis
 None
 October-08

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
10/1/2008			54	39	2	0	4
10/2/2008			53	38	2	0	4
10/3/2008			56	49	2	0	4
10/4/2008			56	61	2	0	4
10/5/2008			58	66	2	0	4
10/6/2008			57	69	2	0	4
10/7/2008			55	72	2	0	34 bucket test 5 min 34
10/8/2008			144	39	0	14	0 pump off hfp
10/9/2008			129	63	0	0	0 pump off hfp
10/10/2008			55	57	0	0	0 pump off hfp
10/11/2008			52	51	0	0	0 pump off
10/12/2008			48	51	0	0	0 pump off
10/13/2008			51	46	0	0	0 started pumping unit
10/14/2008			53	54	24	0	34 6.5 strokes 24 hrs on 34 bbls
10/15/2008			55	66	24	0	34
10/16/2008			55	70	24	0	34
10/17/2008			56	73	24	0	33
10/18/2008			56	75	24	0	32
10/19/2008			56	76	24	0	31
10/20/2008			55	77	24	0	30
10/21/2008			56	78	24	0	34 bucket test 5 min 34
10/22/2008			56	78	24	0	31
10/23/2008			55	79	24	0	34
10/24/2008			57	80	24	0	34
10/25/2008			55	81	24	0	34
10/26/2008			56	81	24	0	34
10/27/2008			59	82	24	0	34 bucket test 5 min 34
10/28/2008			55	83	24	0	34
10/29/2008			59	83	24	0	34
10/30/2008			59	83	16	0	23 changed time to 16 hrs on 23
10/31/2008			58	79	16	0	23

Total

2079

635

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