

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **SI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
3/17/2009

API No. 15
023-20608-00-00

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		3-17	20 09	at 8:15	(AM) (PM)
Well on Line: Started		3-18	20 09	at 8:30	(AM) (PM)
				at 8:30	(AM) (PM)
				at 9:15	(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						248	262.4				
Flow						115	129.4			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
						35		

(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" ----- 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 31 day of December, 20 09.

Witness (if any)

For Commission

Wagner Inaker

For Company

Checked by

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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.

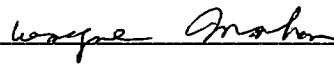
I hereby request a one-year exemption from open flow testing for the Isernhagen 4-23 gas well on the grounds that said well:

(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: 12/31/09

Signature: 

Title: Assistant 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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W355
 Isernhagen 04-23
 St. Francis
 St. Francis
 None
 March-09

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
3/1/2009			63	17	0	0	0	
3/2/2009			63	17	0	0	0	
3/3/2009			63	18	0	0	0	
3/4/2009			63	17	0	0	0	0 bp
3/5/2009			63	18	0	0	0	
3/6/2009			61	17	0	0	0	
3/7/2009			60	17	0	0	0	
3/8/2009			61	17	0	0	0	
3/9/2009			60	17	0	0	0	
3/10/2009			58	17	0	0	0	
3/11/2009			58	18	0	0	0	
3/12/2009			60	18	0	0	0	
3/13/2009			64	18	0	0	2	
3/14/2009			62	18	0	0	0	
3/15/2009			62	17	0	0	0	
3/16/2009			88	17	0	0	0	
3/17/2009		248	222	0	0	0	24	
3/18/2009			222	0	0	0	24	
3/19/2009		115	83	21	0	0	4.5	
3/20/2009			71	24	0	0	0	0 restart P U
3/21/2009			70	25	6	24	0	34
3/22/2009			72	28	6	24	0	32
3/23/2009			71	29	6	24	0	33
3/24/2009			70	29	6	24	0	34
3/25/2009			70	31	6	24	0	23
3/26/2009			72	33	6	24	0	23
3/27/2009			72	36	6	24	0	23
3/28/2009			68	35	6	24	0	23
3/29/2009			68	35	6	24	0	22
3/30/2009			65	34	6	24	0	22
3/31/2009			64	35	6	24	0	23

Total

673

292

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W355

Isernhagen 04-23

St. Francis

St. Francis

None

April-09

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
4/1/2009			69	35	6	16	0	21
4/2/2009			67	35	6	16	0	21
4/3/2009			69	26	6	16	0	22
4/4/2009			65	36	6	16	0	23 bucket test 5 min
4/5/2009			65	35	6	16	0	22
4/6/2009			67	37	6	16	0	21
4/7/2009			70	38	6	16	0	22
4/8/2009			70	37	6	16	0	23
4/9/2009			71	37	6	16	0	22
4/10/2009			73	38	6	16	0	21
4/11/2009			72	38	6	16	0	23
4/12/2009			72	38	6	16	0	23
4/13/2009			76	38	6	16	0	23 bucket test 5 min
4/14/2009			87	38	6	16	0	22 bp
4/15/2009			67	39	6	16	0	21
4/16/2009			67	39	6	16	0	22
4/17/2009			82	39	6	16	0	21
4/18/2009			72	38	6	16	0	24
4/19/2009			75	32	6	16	0	23
4/20/2009			82	30	6	16	0	21
4/21/2009			87	29	6	16	0	23
4/22/2009			65	32	6	16	0	22
4/23/2009			84	36	6	16	0	21
4/24/2009			70	37	6	16	0	22
4/25/2009			65	39	6	12	0	23
4/26/2009			65	33	6	12	0	22
4/27/2009			65	30	6	12	0	23
4/28/2009			64	30	0	0	0	0 belt off need new belts
4/29/2009			64	33	6	12	0	0 put new belt on
4/30/2009			65	35	6	12	0	23 bucket test 5 min
5/1/2009							0	

Total

1057

620

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W355
 Isernhagen 04-23
 St. Francis
 St. Francis
 None
 May-09

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)	
	PSI	PSI						
5/1/2009			67	35	6	12	0	22
5/2/2009			63	35	6	12	0	23
5/3/2009			64	35	6	12	0	22
5/4/2009			79	38	6	12	0	21
5/5/2009			65	38	6	12	0	22 bp
5/6/2009			65	38	6	12	0	23 bucket test 5 min greased
5/7/2009			65	39	6	12	0	22
5/8/2009			67	39	6	12	0	21
5/9/2009			67	39	6	12	0	22
5/10/2009			66	40	6	12	0	23
5/11/2009			70	40	6	12	0	22
5/12/2009			75	40	6	12	0	21 bp
5/13/2009			76	40	6	12	0	23 bucket test 5 min
5/14/2009			76	40	6	12	0	22
5/15/2009			76	40	6	12	0	22
5/16/2009			77	40	6	12	0	21
5/17/2009			76	40	6	12	0	21
5/18/2009			77	40	6	12	0	22
5/19/2009			88	40	6	12	0	23
5/20/2009			112	16	0	0	12	11 shut pump off hfp
5/21/2009			75	45	6	12	0	0 started pumping unit
5/22/2009			76	41	6	12	0	23
5/23/2009			75	41	6	12	0	22
5/24/2009			75	41	6	12	0	23
5/25/2009			76	40	6	12	0	24
5/26/2009			75	40	6	12	0	23
5/27/2009			75	40	6	12	0	22
5/28/2009			75	42	6	12	0	23 bp
5/29/2009			75	42	6	12	0	22
5/30/2009			75	42	6	12	0	22
5/31/2009			75	41	6	12	0	21

Total

1207

654

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