

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**
 Deliverability

Test Date:
8/17/2012

API No. 15
023-20659-0000

Company Rosewood Resources, Inc.		Lease Miller		Well Number 24-13	
County Cheyenne	Location SESW	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 3/11/2006		Plug Back Total Depth 1347'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1350'	Perforations 1234'	To 1270'
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	
Vertical Depth(H) 1270'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 8-16		20 12 at 8:35		<input checked="" type="radio"/> (AM) (PM) Taken 8-17	
Well on Line: Started 8-17		20 12 at 8:50		<input checked="" type="radio"/> (AM) (PM) Taken 8-18	

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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 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						137	151.4				
Flow						58	72.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						29		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_d)² = 0.207
(P_d)² = _____

(P _c) ² - (P _d) ² or (P _c) ² - (P _w) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	Backpressure Curve Slope = "n" ----- 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 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 Miller 24-13 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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W370
 Miller 24-13
 St. Francis
 St. Francis
 None
 August-12
 FloBoss

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water	REMARKS
	PSI	PSI								
8/1/2012		60	73	35	6.5	0		0	0	pu off hole in tubing
8/2/2012		54	67	35	6.5	0		0	0	
8/3/2012		54	67	34	6.5	0		0	0	
8/4/2012		52	65	34	6.5	0		0	0	
8/5/2012		61	74	34	6.5	0		0	0	
8/6/2012		52	65	33	6.5	0		0	0	
8/7/2012		62	75	33	6.5	0		0	0	
8/8/2012		56	69	33	6.5	0		0	0	
8/9/2012		54	67	33	6.5	0		0	0	
8/10/2012		70	83	32	6.5	0		0	0	
8/11/2012		56	69	31	6.5	0		1.5	0	
8/12/2012		57	70	31	6.5	0		0	0	
8/13/2012		51	64	32	6.5	0		0	0	
8/14/2012		54	67	32	6.5	0		0	0	
8/15/2012		63	76	31	6.5	0		0	0	
8/16/2012		54	67	31	6.5	0		0	0	0 si for state test cp-60
8/17/2012		157	65	0	6.5	0		24	0	0 reopened cp-137
8/18/2012		58	71	36	6.5	0		0	0	
8/19/2012		59	72	36	6.5	0		0	0	
8/20/2012		50	63	34	6.5	0		0	0	
8/21/2012		58	71	33	6.5	0		0	0	
8/22/2012		54	67	32	6.5	0		0	0	
8/23/2012		61	74	32	6.5	0		0	0	
8/24/2012		64	77	31	6.5	0		0	0	
8/25/2012		58	71	30	6.5	0		0	0	
8/26/2012		58	71	30	6.5	0		0	0	
8/27/2012		52	65	30	6.5	0		0	0	
8/28/2012		53	66	30	6.5	0		0	0	
8/29/2012		54	67	30	6.5	0		0	0	
8/30/2012		53	66	29	6.5	0		0	0	
8/31/2012		53	66	29	6.5	0		0	0	

Total

966

0

W370

Miller 24-13

St. Francis

St. Francis

None

September-12

FloBoss

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DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI						
9/1/2012		53	66	29	6.5	0	0	
9/2/2012		56	69	29	6.5	0	0	
9/3/2012		53	66	29	6.5	0	0	
9/4/2012		52	65	29	6.5	0	1	
9/5/2012		71	84	28	6.5	0	0	
9/6/2012		71	84	28	6.5	0	0	
9/7/2012		137	150	6	6.5	0	19	
9/8/2012		147	160	0	6.5	0	24	
9/9/2012		150	163	0	6.5	0	24	
9/10/2012		152	165	0	6.5	0	24	
9/11/2012		154	167	0	6.5	0	24	
9/12/2012		156	169	0	6.5	0	24	
9/13/2012		108	121	27	6.5	0	10	
9/14/2012		98	111	30	6.5	0	0	
9/15/2012		89	102	26	6.5	0	0	
9/16/2012		84	97	25	6.5	0	0	
9/17/2012		74	87	24	6.5	0	0	
9/18/2012		55	68	24	6.5	0	0	restart pu
9/19/2012		73	86	22	6.5	0	0	pu off hfp
9/20/2012		47	60	22	6.5	0	0	restart pu
9/21/2012		48	61	22	6.5	13.5	19	5 min bt
9/22/2012		47	60	33	6.5	13.5	18	
9/23/2012		47	60	21	6.5	13.5	17	
9/24/2012		52	65	21	6.5	13.5	19	5 min bt
9/25/2012		55	68	21	6.5	13.5	19	
9/26/2012		56	69	21	6.5	13.5	20	
9/27/2012		64	77	21	6.5	13.5	19	5 min bt
9/28/2012		55	68	21	6.5	13.5	17	
9/29/2012		56	69	21	6.5	13.5	19	
9/30/2012		56	69	21	6.5	13.5	18	
10/1/2012								

Total

601

185

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KCC WICHITA

W370

Miller 24-13

St. Francis

St. Francis

None

October-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
10/1/2012		56	69	21	6.5	13.5	19	
10/2/2012		56	69	21	6.5	13.5	21	
10/3/2012		56	69	20	6.5	13.5	17	
10/4/2012		53	66	20	6.5	13.5	19	5 min bt
10/5/2012		54	67	20	6.5	13.5	19	
10/6/2012		55	68	20	6.5	13.5	20	
10/7/2012		54	67	20	6.5	13.5	21	
10/8/2012		55	68	20	6.5	13.5	19	
10/9/2012		55	68	20	6.5	13.5	18	
10/10/2012		57	70	20	6.5	13.5	21	
10/11/2012		56	69	20	6.5	13.5	17	5.75 min bt greased
10/12/2012		55	68	20	6.5	13.5	16	
10/13/2012		57	70	20	6.5	13.5	19	
10/14/2012		58	71	20	6.5	13.5	20	
10/15/2012		56	69	20	6.5	13.5	16	
10/16/2012		73	86	20	6.5	13.5	1	17
10/17/2012		56	69	20	6.5	13.5	18	5.25 min bt
10/18/2012		54	67	19	6.5	13.5	19	
10/19/2012		54	67	19	6.5	13.5	18	
10/20/2012		57	70	19	6.5	13.5	17	
10/21/2012		54	67	19	6.5	13.5	18	
10/22/2012		55	68	19	6.5	13.5	19	
10/23/2012		54	67	19	6.5	13.5	20	
10/24/2012		54	67	19	6.5	13.5	18	5.5 min bt
10/25/2012		52	75	19	6.5	13.5	17	
10/26/2012		54	67	19	6.5	13.5	19	
10/27/2012		52	65	19	6.5	13.5	20	
10/28/2012		52	65	19	6.5	13.5	16	
10/29/2012		81	94	19	6.5	6.75	2	9 pu off hfp
10/30/2012		68	81	19	6.5	0	0	
10/31/2012		51	64	19	6.5	6.75	9	restart pu

Total

608

536