

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **AST**
 Deliverability

Test Date:
7/13/2011

API No. 15
023-20659-00 -00

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 2 3/8"	Weight	Internal Diameter	Set at 1291'	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	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-12		20 11 at 8:35		(AM)(PM) Taken 7-13	
				20 11 at 8:50 (AM)(PM)	
Well on Line: Started 7-13		20 11 at 8:50		(AM)(PM) Taken 7-14	
				20 11 at 9:35 (AM)(PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter or 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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						84	98.4				
Flow						60	74.4			24	

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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						60		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_d^2}$	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 28 day of December, 20 11.

Witness (if any)

For Company

For Commission

Checked by

RECEIVED

APR 24 2012

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 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: 12/28/11

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.

RECEIVED
APR 24 2012
KCC WICHITA

W370

Miller 24-13

St. Francis

St. Francis

None

July-11

FloBoss

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water	REMARKS
	PSI	PSI								
7/1/2011		60	73	53	6.5	14			22	
7/2/2011		60	73	53	6.5	14			21	
7/3/2011		60	73	53	6.5	14			23	
7/4/2011		60	73	53	6.5	14			22	
7/5/2011		60	73	53	6.5	14			21	
7/6/2011		59	72	53	6.5	14			22	4.5 min bt greased
7/7/2011		59	72	53	6.5	14			23	
7/8/2011		60	73	53	6.5	14			22	
7/9/2011		60	73	53	6.5	14			23	
7/10/2011		59	72	53	6.5	14			21	
7/11/2011		58	71	53	6.5	14			20	5 min bt
7/12/2011		58	71	53	6.5	7			8	squeezed well
7/13/2011		84	97	0	6.5	7	24		8	reopen well
7/14/2011		59	72	68	6.5	14			22	
7/15/2011		60	73	67	6.5	14			23	
7/16/2011		65	78	66	6.5	14			21	
7/17/2011		65	78	66	6.5	14			24	
7/18/2011		71	84	66	6.5	7			10	pu off, high field pressure
7/19/2011		61	74	59	6.5	7			10	restart pu
7/20/2011		60	73	59	6.5	14			21	
7/21/2011		67	80	61	6.5	7			10	pu off, high field pressure
7/22/2011		56	69	57	6.5	7			10	restart pu
7/23/2011		57	70	57	6.5	14			23	
7/24/2011		57	70	60	6.5	14			22	
7/25/2011		56	69	60	6.5	14			21	
7/26/2011		56	69	60	6.5	14			22	4.5 min bt
7/27/2011		57	70	61	6.5	14			23	
7/28/2011		58	71	61	6.5	14			21	
7/29/2011		55	68	60	6.5	14			18	
7/30/2011		58	58	60	6.5	14			19	
7/31/2011		45	58	61	6.5	14			20	

Total

1745

596

RECEIVED
APR 24 2012
KCC WICHITA

W370

Miller 24-13

St. Francis

St. Francis

None

August-11

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
8/1/2011		58	71	61	6.5	14	22
8/2/2011		57	70	61	6.5	14	21
8/3/2011		59	72	61	6.5	14	22 4.5 min bt
8/4/2011		58	71	60	6.5	14	23
8/5/2011		57	70	60	6.5	14	21
8/6/2011		58	71	60	6.5	14	22
8/7/2011		57	70	60	6.5	14	23
8/8/2011		57	70	60	6.5	14	22 4.5 min bt greased
8/9/2011		57	70	60	6.5	14	21
8/10/2011		54	67	60	6.5	14	23
8/11/2011		68	81	60	6.5	14	20
8/12/2011		76	89	59	6.5	7	11 pu off hfp
8/13/2011		76	89	54	6.5	0	0
8/14/2011		84	97	49	6.5	0	0
8/15/2011		84	97	47	6.5	0	0
8/16/2011		58	71	46	6.5	7	11 restart pu
8/17/2011		101	114	43	6.5	7	5 11 pu off hfp
8/18/2011		56	69	44	6.5	7	4 11 restart pu
8/19/2011		64	77	44	6.5	14	1 22
8/20/2011		57	70	50	6.5	14	21
8/21/2011		56	69	51	6.5	14	23 4.25 min bt replace check valve
8/22/2011		64	77	51	6.5	14	21
8/23/2011		54	67	53	6.5	14	21
8/24/2011		58	71	53	6.5	14	22
8/25/2011		56	69	54	6.5	14	23
8/26/2011		57	70	54	6.5	14	22
8/27/2011		58	71	54	6.5	14	21
8/28/2011		57	70	55	6.5	14	22
8/29/2011		57	70	54	6.5	14	23
8/30/2011		57	70	54	6.5	14	21
8/31/2011		57	70	55	6.5	14	22 4.5 min bt

Total

1687

568

RECEIVED
APR 24 2012
KCC WICHITA

W370
 Miller 24-13
 St. Francis
 St. Francis
 None
 September-11
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2011		58	71	55	6.5	14	22	
9/2/2011		58	71	55	6.5	14	21	
9/3/2011		58	71	55	6.5	14	23	
9/4/2011		58	71	55	6.5	14	22	
9/5/2011		57	70	55	6.5	14	21	
9/6/2011		57	70	55	6.5	14	27	
9/7/2011		58	71	55	6.5	14	18	5.5 min bt
9/8/2011		57	70	55	6.5	14	17	
9/9/2011		57	70	55	6.5	14	18	
9/10/2011		57	70	56	6.5	14	17	
9/11/2011		58	71	55	6.5	14	16	
9/12/2011		58	71	55	6.5	14	17	
9/13/2011		57	70	55	6.5	14	22	4.5 min bt
9/14/2011		58	71	55	6.5	14	20	
9/15/2011		57	70	55	6.5	14	23	
9/16/2011		57	70	55	6.5	14	21	
9/17/2011		57	70	55	6.5	14	20	
9/18/2011		57	70	56	6.5	14	23	
9/19/2011		57	70	56	6.5	14	21	
9/20/2011		56	69	56	6.5	14	20	5 min bt
9/21/2011		57	70	56	6.5	14	22	
9/22/2011		57	70	56	6.5	14	19	
9/23/2011		56	69	56	6.5	14	20	
9/24/2011		57	70	56	6.5	14	19	
9/25/2011		57	70	56	6.5	14	20	check valve needs replaced
9/26/2011		54	67	56	6.5	14	21	
9/27/2011		54	67	56	6.5	14	22	4.5 min bt
9/28/2011		61	74	56	6.5	14	19	
9/29/2011		54	67	56	6.5	14	21	
9/30/2011		54	67	56	6.5	14	20	
10/1/2011								

Total 1664 612

RECEIVED
 APR 24 2012
 KCC WICHITA