

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

Open Flow **SI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/25/2012

API No. 15
15-023-20567 - 0000

Company Rosewood Resources			Lease Miller		Well Number 1-13
County Cheyenne	Location NESW	Section 13	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 1457'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1500'	Perforations 1292'	To 1330'
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) 1330'		Pressure Taps Flange			(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in 7-24		20	12 at 8:55	(AM) (PM) Taken 7-25	20 12 at 9:10 (AM) (PM)
Well on Line: Started 7-25		20	12 at 9:10	(AM) (PM) Taken 7-26	20 12 at 9:55 (AM) (PM)

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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 _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						105	119.4				
Flow						65	79.4			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
						51		

(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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" -----or----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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)

Samuel Gevew
For Company

For Commission

Checked by

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.

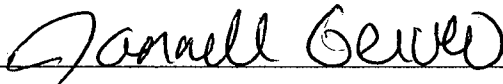
I hereby request a one-year exemption from open flow testing for the Miller 1-13 gas well on the grounds that said well:

(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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W357
 Miller 01-13
 St. Francis
 St. Francis
 St. Francis
 July-12
 FloBoss

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI								
7/1/2012		66	79	43	6.5	12			14	
7/2/2012		55	68	48	6.5	12		3	13	
7/3/2012		72	85	40	6.5	6				6 pu off hfp
7/4/2012		53	66	48	6.5	6				6 restart pu
7/5/2012		52	65	45	6.5	12			12	
7/6/2012		81	94	47	6.5	12		1	13	
7/7/2012		58	71	45	6.5	12			14	
7/8/2012		60	73	47	6.5	12			13	
7/9/2012		58	71	48	6.5	12			12	
7/10/2012		57	70	48	6.5	12			11	
7/11/2012		55	68	48	6.5	12			12	
7/12/2012		59	72	51	6.5	12			13	
7/13/2012		54	67	50	6.5	12			12	
7/14/2012		55	68	50	6.5	12			11	
7/15/2012		55	68	51	6.5	12			12	
7/16/2012		69	82	45	6.5	6		1.5		6 pu off hfp
7/17/2012		58	71	52	6.5	6				6 restart pu
7/18/2012		67	80	49	6.5	12			12	
7/19/2012		63	76	46	6.5	12		0.5		19 4.5 min bt
7/20/2012		61	74	46	6.5	12			17	
7/21/2012		63	76	47	6.5	12			19	
7/22/2012		58	71	49	6.5	12			20	
7/23/2012		64	77	50	6.5	12		0.5		20 4.25 min bt greased
7/24/2012		65	78	48	6.5	6				10 cp 65 si for state test
7/25/2012		105	85	0	6.5	6		24		10 cp 105 opened
7/26/2012		65	78	65	6.5	6				11 shut pumping unit off hfp
7/27/2012		80	93	31	6.5	0		5	0	
7/28/2012		65	78	60	6.5	0			0	
7/29/2012		56	69	53	6.5	6				10 started pumping unit
7/30/2012		52	65	49	6.5	12			20	
7/31/2012		53	66	51	6.5	12			21	

Total

1450

375

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W357
 Miller 01-13
 St. Francis
 St. Francis
 St. Francis
 August-12
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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
8/1/2012		62	75	51	6.5	12		19	4.5 min bt
8/2/2012		56	69	51	6.5	12		20	
8/3/2012		56	69	51	6.5	12		21	
8/4/2012		54	67	52	6.5	12		22	
8/5/2012		63	76	52	6.5	12		19	
8/6/2012		55	68	52	6.5	12		18	4.75 min bt
8/7/2012		63	77	50	6.5	12		17	
8/8/2012		58	71	49	6.5	12		17	
8/9/2012		57	70	51	6.5	12		18	
8/10/2012		75	88	51	6.5	12		17	
8/11/2012		58	71	53	6.5	12	1.5	16	
8/12/2012		59	72	51	6.5	12		17	
8/13/2012		53	66	51	6.5	12		18	
8/14/2012		56	69	53	6.5	12		19	
8/15/2012		65	78	51	6.5	12		17	5 min bt greased
8/16/2012		56	69	49	6.5	12		15	
8/17/2012		54	67	52	6.5	12		16	
8/18/2012		62	75	49	6.5	12		14	
8/19/2012		61	74	49	6.5	12		13	
8/20/2012		53	66	50	6.5	12		19	4.5 min bt
8/21/2012		60	73	50	6.5	12		17	
8/22/2012		56	69	50	6.5	12		15	
8/23/2012		62	75	50	6.5	12		16	
8/24/2012		61	74	47	6.5	12		17	
8/25/2012		60	73	47	6.5	12		18	
8/26/2012		60	73	50	6.5	12		19	
8/27/2012		55	68	50	6.5	12		18	
8/28/2012		56	69	50	6.5	12		18	4.75 min bt
8/29/2012		57	70	49	6.5	12		21	
8/30/2012		56	69	49	6.5	12		16	
8/31/2012		56	69	49	6.5	12		13	

Total

1559

540

W357

Miller 01-13

St. Francis

St. Francis

St. Francis

September-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2012		55	68	49	6.5	12	18	
9/2/2012		58	71	49	6.5	12	19	
9/3/2012		56	69	49	6.5	12	17	5 min bt
9/4/2012		55	68	50	6.5	12	1	16
9/5/2012		73	86	50	6.5	12	19	
9/6/2012		73	86	51	6.5	6	10	pu off hfp
9/7/2012		104	117	7	6.5	0	19	0
9/8/2012		110	123	0	6.5	0	24	0
9/9/2012		113	126	0	6.5	0	24	0
9/10/2012		116	129	0	6.5	0	24	0
9/11/2012		119	132	0	6.5	0	24	0
9/12/2012		120	133	0	6.5	0	24	0
9/13/2012		110	123	10	6.5	0	10	0
9/14/2012		99	112	40	6.5	0	0	0
9/15/2012		92	105	58	6.5	0	0	0
9/16/2012		87	100	56	6.5	0	0	0
9/17/2012		77	90	60	6.5	0	0	0
9/18/2012		58	71	66	6.5	6	10	restart pu
9/19/2012		75	88	45	6.5	6	10	pu off hfp
9/20/2012		49	62	50	6.5	6	10	restart pu
9/21/2012		51	64	50	6.5	12	20	
9/22/2012		50	63	51	6.5	12	19	
9/23/2012		51	64	52	6.5	12	18	
9/24/2012		55	68	52	6.5	12	19	
9/25/2012		58	71	52	6.5	12	21	4 min bt
9/26/2012		63	76	52	6.5	12	22	
9/27/2012		66	79	48	6.5	12	20	
9/28/2012		58	71	53	6.5	12	22	
9/29/2012		58	71	53	6.5	12	20	
9/30/2012		59	71	53	6.5	12	21	
10/1/2012								

Total

1206

331