

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **SI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/15/2012

API No. 15
023-20636-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 22-04	
County Cheyenne	Location SENW/4	Section 4	TWP 3S	RNG (E/W) 42W	Acres Attributed
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 10/21/2005		Plug Back Total Depth 1775'	Packer Set at		
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter	Set at 1775'	Perforations 1598'	To 1632'
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 type="checkbox"/> No <input checked="" type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6	
Vertical Depth(H) 1632'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-14		20 12	at 1:00	(AM) (PM) Taken 8-15	20 12
Well on Line: Started 8-15		20 12	at 1:15	(AM) (PM) Taken 8-16	20 12
					at 2:00 (AM) (PM)

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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 (Pm)	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						237	251.4				
Flow						24	38.4			24	0

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
						2		

(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" 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 Commission

Janull Geew
For Company

Checked by

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Form G-2
(Rev. 7/03)

JAN 03 2013

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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 Ella Mae 22-4 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.

W434

Ella Mae 22-04

West St. Francis

St. Francis

None

August-12

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DATE	Tubing PSI	Casing PSI	STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2012		26	40	2			
8/2/2012		26	40	2			
8/3/2012		28	41	2			
8/4/2012		45	58	2			
8/5/2012		56	69	2			
8/6/2012		44	57	1			
8/7/2012		27	41	1			
8/8/2012		27	41	2			
8/9/2012		27	41	2			
8/10/2012		26	40	2			
8/11/2012		62	76	2		1.5	
8/12/2012		34	47	1			
8/13/2012		24	38	2			
8/14/2012		23	36	2			
8/15/2012		237	20	0		24	shut well in for state test psi 23 open well psi 237
8/16/2012		24	37	1			
8/17/2012		29	42	2			
8/18/2012		28	41	2			
8/19/2012		28	41	2			
8/20/2012		27	40	2			
8/21/2012		27	40	2			
8/22/2012		29	42	2			
8/23/2012		29	42	2			
8/24/2012		24	37	2			
8/25/2012		24	37	2			
8/26/2012		28	41	2			
8/27/2012		28	41	2			
8/28/2012		33	47	2			
8/29/2012		29	42	2			
8/30/2012		29	42	2			
8/31/2012		30	43	2			

Total

56

0

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Ella Mae 22-04

West St. Francis

St. Francis

None

September-12

DATE	Tubing PSI	Casing PSI	STATIC MCF	SPM	HRS CYCLE	Water DOWN BBL	REMARKS (Maximum length 110 characters)
9/1/2012		30	43	2			
9/2/2012		30	43	2			
9/3/2012		30	43	2			
9/4/2012		30	43	2			
9/5/2012		65	78	2		1	
9/6/2012		30	43	2			
9/7/2012		138	161	2		19	
9/8/2012		165	178	0		24	
9/9/2012		170	184	0		24	
9/10/2012		175	188	0		24	
9/11/2012		176	189	0		24	
9/12/2012		178	191	0		24	
9/13/2012		107	120	0		10	
9/14/2012		97	110	0			
9/15/2012		90	103	0			
9/16/2012		85	98	0			
9/17/2012		76	89	0			
9/18/2012		30	44	0			
9/19/2012		80	94	2			
9/20/2012		23	37	2			
9/21/2012		30	44	2			
9/22/2012		28	42	2			
9/23/2012		28	42	2			
9/24/2012		30	43	2			
9/25/2012		28	42	2			
9/26/2012		28	42	2			
9/27/2012		31	44	2			
9/28/2012		31	44	2			
9/29/2012		31	44	2			
9/30/2012		31	44	2			
10/1/2012							

Total

38

0

W434

Ella Mae 22-04

West St. Francis

St. Francis

None

October-12

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DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
10/1/2012		30	43	2				
10/2/2012		30	43	2				
10/3/2012		29	42	2				
10/4/2012		28	41	2				
10/5/2012		29	43	2				
10/6/2012		28	42	2				
10/7/2012		28	42	2				
10/8/2012		28	42	2				
10/9/2012		28	41	2				
10/10/2012		29	43	2				
10/11/2012		28	42	2				
10/12/2012		28	42	2				
10/13/2012		28	42	2				
10/14/2012		28	42	2				
10/15/2012		30	43	2				
10/16/2012		42	56	2				
10/17/2012		30	43	2				
10/18/2012		30	43	2				
10/19/2012		29	42	2				
10/20/2012		44	58	2				
10/21/2012		30	44	2				
10/22/2012		29	41	2				
10/23/2012		26	40	2				
10/24/2012		25	39	2				
10/25/2012		28	42	2				
10/26/2012		28	41	2				
10/27/2012		28	41	2				
10/28/2012		28	41	2				
10/29/2012		78	91	2			2	
10/30/2012		67	80	1				
10/31/2012		41	54	0				

Total

59

0