

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **AST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
3/7/2013

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 checked="" type="radio"/> No <input type="radio"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1632'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 3-6		20 13 at 1:00		(AM) (PM) Taken 3-7	
Well on Line: Started 3-7		20 13 at 1:15		(AM) (PM) Taken 3-8	
		20 13 at 1:15		(AM) (PM) Taken 3-8	
		20 13 at 2:00		(AM) (PM) Taken 3-8	

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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						107	121.4				
Flow						24	38.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _v) 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
						2		

(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 _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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 10 day of December, 20 13.

Witness (if any)

Samuel Martinez
For Company

KCC WICHITA

For Commission

Checked by _____

DEC 26 2013
RECEIVED

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: 12/10/13

Signature: *Arnold Matney*

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.

KCC WICHITA

DEC 26 2013

RECEIVED

W434
 Ella Mae 22-04
 West St. Francis
 St. Francis
 None
 March-13

DATE	Casing		MCF	HRS	REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN	
3/1/2013	34	47		2	
3/2/2013	35	48		1	
3/3/2013	26	39		1	
3/4/2013	25	38		2	
3/5/2013	23	47		2	
3/6/2013	97	111		0	shut in for state
3/7/2013	107	120		0	24
3/8/2013	67	81		3	
3/9/2013	47	61		3	
3/10/2013	45	58		3	
3/11/2013	23	37		2	
3/12/2013	41	55		2	3
3/13/2013	42	55		1	
3/14/2013	55	69		1	1
3/15/2013	68	81		1	
3/16/2013	58	71		1	
3/17/2013	48	61		1	
3/18/2013	53	66		1	
3/19/2013	34	47		1	
3/20/2013	34	47		1	
3/21/2013	23	37		2	
3/22/2013	24	38		2	
3/23/2013	24	38		2	
3/24/2013	25	39		2	
3/25/2013	71	85		2	
3/26/2013	57	71		2	
3/27/2013	24	38		2	
3/28/2013	24	38		2	
3/29/2013	24	38		2	
3/30/2013	25	38		2	
3/31/2013	25	38		2	

Total 51

KCC WICHITA
DEC 26 2013
RECEIVED

W434
 Ella Mae 22-04
 West St. Francis
 St. Francis
 None
 April-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
4/1/2013	25	38		2	
4/2/2013	26	38		2	
4/3/2013	25	29		2	
4/4/2013	27	41		2	
4/5/2013	61	75		0	
4/6/2013	47	60		2	
4/7/2013	47	60		2	
4/8/2013	48	61		1	
4/9/2013	45	58		2	
4/10/2013	46	59		1	2
4/11/2013	26	40		0	
4/12/2013	23	36		2	
4/13/2013	74	87		1	1
4/14/2013	49	62		1	
4/15/2013	52	65		2	
4/16/2013	23	36		0	
4/17/2013	35	48		2	
4/18/2013	29	42		2	
4/19/2013	35	38		2	
4/20/2013	46	59		2	
4/21/2013	47	60		0	
4/22/2013	47	60		1	
4/23/2013	47	60		0	
4/24/2013	47	60		0	high pressure causing this well not to flow gas
4/25/2013	48	61		0	
4/26/2013	49	62		1	
4/27/2013	49	62		1	
4/28/2013	60	74		1	
4/29/2013	60	73		0	
4/30/2013	55	68		0	
5/1/2013					

Total 34

KCC WICHITA
 DEC 26 2013
 RECEIVED

W434
 Ella Mae 22-04
 West St. Francis
 St. Francis
 None
 May-13

DATE	Casing		MCF	HRS	REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN	
5/1/2013	59	72		1	
5/2/2013	61	74		0	
5/3/2013	50	64		0	
5/4/2013	47	61		0	
5/5/2013	46	60		1	
5/6/2013	48	62		0	
5/7/2013	50	63		1	
5/8/2013	54	68		1	
5/9/2013	56	70		0	
5/10/2013	41	54		0	
5/11/2013	35	48		1	
5/12/2013	29	42		2	
5/13/2013	29	42		2	
5/14/2013	29	42		2	
5/15/2013	66	79		1	3
5/16/2013	74	87		1	
5/17/2013	30	44		0	
5/18/2013	26	40		2	
5/19/2013	26	40		2	
5/20/2013	25	38		2	
5/21/2013	35	48		2	
5/22/2013	57	70		2	14
5/23/2013	162	175		0	10
5/24/2013	98	111		0	4
5/25/2013	95	108		0	
5/26/2013	87	100		0	
5/27/2013	84	97		0	
5/28/2013	74	87		2	
5/29/2013	81	94		1	
5/30/2013	52	65		1	
5/31/2013	48	61		2	

Total 29

KCC WICHITA
 DEC 26 2013
 RECEIVED