

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow Deliverability

(See Instructions on Reverse Side)

Test Date:
3/7/2013

API No. 15
023-20635-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 14-3	
County Cheyenne	Location SWSW	Section 3	TWP 3S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10-21-2005		Plug Back Total Depth 1715'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1715'	Perforations 1575'	To 1607'
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="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1573'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 3-6 20 13 at 1:15 (AM) <input checked="" type="checkbox"/> (PM) Taken 3-7 20 13 at 1:30 (AM) <input checked="" type="checkbox"/> (PM)		Well on Line: Started 3-7 20 13 at 1:30 (AM) <input checked="" type="checkbox"/> (PM) Taken 3-8 20 13 at 2:15 (AM) <input checked="" type="checkbox"/> (PM)			

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 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						220	234.4				
Flow						43	57.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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 (Mcf/d)	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 (Mcf/d)

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)

KCC WICHITA

For Company

For Commission

DEC 26 2013

Checked by

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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 Eli Mae 14-03 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: 
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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W435
 Ella Mae 14-03
 West St. Francis
 St. Francis
 None
 March-13

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
3/1/2013	19	32	2	
3/2/2013	27	41	2	
3/3/2013	20	33	2	
3/4/2013	19	32	2	
3/5/2013	79	93	2	
3/6/2013	114	100	0	shut well in for state test psi 114
3/7/2013	220	125	0	24 open well psi 220
3/8/2013	64	78	4	
3/9/2013	43	57	3	
3/10/2013	41	54	3	
3/11/2013	17	31	3	3
3/12/2013	36	50	2	
3/13/2013	35	49	1	1
3/14/2013	47	60	1	
3/15/2013	66	79	0	
3/16/2013	57	70	0	
3/17/2013	46	59	2	
3/18/2013	51	64	2	
3/19/2013	52	65	2	
3/20/2013	40	54	2	
3/21/2013	29	43	2	
3/22/2013	19	33	2	
3/23/2013	20	34	2	
3/24/2013	19	33	2	
3/25/2013	65	79	1	
3/26/2013	52	66	1	
3/27/2013	18	32	3	
3/28/2013	18	32	2	
3/29/2013	20	34	2	
3/30/2013	22	35	1	
3/31/2013	22	35	1	

Total 54

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W435
 Ella Mae 14-03
 West St. Francis
 St. Francis
 None
 April-13

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
4/1/2013	19	32	2	
4/2/2013	19	32	2	
4/3/2013	20	33	2	
4/4/2013	22	35	2	
4/5/2013	32	45	2	
4/6/2013	32	45	2	
4/7/2013	44	57	1	
4/8/2013	44	57	1	
4/9/2013	42	55	1	
4/10/2013	42	56	2	2
4/11/2013	24	38	3	
4/12/2013	17	30	2	
4/13/2013	75	88	2	1
4/14/2013	46	59	2	
4/15/2013	46	59	2	
4/16/2013	18	31	2	
4/17/2013	27	40	2	
4/18/2013	20	33	2	
4/19/2013	20	33	2	
4/20/2013	43	56	2	
4/21/2013	43	56	2	
4/22/2013	43	56	2	
4/23/2013	43	56	2	
4/24/2013	42	55	2	
4/25/2013	46	59	2	
4/26/2013	46	59	2	
4/27/2013	47	60	2	
4/28/2013	59	72	2	
4/29/2013	59	72	2	
4/30/2013	49	65	2	
5/1/2013				

Total

58

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W435
 Ella Mae 14-03
 West St. Francis
 St. Francis
 None
 May-13

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
5/1/2013	42	66		2		
5/2/2013	58	72		2		
5/3/2013	47	61		2		
5/4/2013	44	58		2		
5/5/2013	43	57		2		
5/6/2013	45	59		2		
5/7/2013	47	61		2		
5/8/2013	50	64		1		
5/9/2013	55	68		2		
5/10/2013	51	64		2		
5/11/2013	30	43		2		
5/12/2013	23	36		2		
5/13/2013	23	36		2		
5/14/2013	23	36		2		
5/15/2013	58	72		2	3	
5/16/2013	73	84		0		
5/17/2013	34	47		2		
5/18/2013	30	43		2		
5/19/2013	30	43		2		
5/20/2013	27	40		3		
5/21/2013	54	67		2		
5/22/2013	54	67		2	14	
5/23/2013	162	175		1	10	
5/24/2013	101	114		3	4	
5/25/2013	97	110		1		
5/26/2013	99	112		1		
5/27/2013	96	109		1		
5/28/2013	72	85		2		
5/29/2013	62	75		2		
5/30/2013	50	63		2		
5/31/2013	45	58		2		

Total 57

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