

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **AST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/14

API No. 15
023-20535-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 3-3	
County Cheyenne	Location SENW	Section 3	TWP 3S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-15-2004		Plug Back Total Depth 1741'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1746'	Perforations 1548'	To 1582'
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="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1582'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14 at 11:35		(AM) (PM) Taken 6-18	
Well on Line: Started 6-22		20 14 at 11:45		(AM) (PM) Taken 6-23	
		20 14 at 11:45		(AM) (PM) Taken 6-23	
		20 14 at 1:35		(AM) (PM) Taken 6-23	

OBSERVED SURFACE DATA

Duration of Shut-in 360 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						190	204.4				
Flow						48	62.4			360	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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						14		

(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" ----- 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 14.

Received
KANSAS CORPORATION COMMISSION

Samuel Martiney
For Company

Witness (if any)

FEB 25 2015

For Commission

CONSERVATION DIVISION
WICHITA, KS

Checked by

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 3-3 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: 12/10/14

Received
KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Janell Montney*
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.

W347
 Ella Mae 3-3
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 June-14

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
6/1/2014	52	65		14	0	
6/2/2014	67	80		13	0	
6/3/2014	58	71		14	0	
6/4/2014	46	56		14	0	
6/5/2014	43	56		14	0	
6/6/2014	47	60		13	0	
6/7/2014	177	190		10	9	
6/8/2014	173	186		0	24	
6/9/2014	176	189		0	24	
6/10/2014	176	189		0	24	
6/11/2014	177	190		0	24	
6/12/2014	179	192		0	24	
6/13/2014	180	183		0	24	
6/14/2014	187	200		0	24	
6/15/2014	187	200		0	24	
6/16/2014	188	201		0	24	
6/17/2014	189	202		0	24	
6/18/2014	190	203		0	24	
6/19/2014	190	203		0	24	
6/20/2014	190	203		0	24	
6/21/2014	190	203		0	24	
6/22/2014	190	203		0	24	
6/23/2014	117	130		45	5	
6/24/2014	110	123		45	0	
6/25/2014	97	110		30	0	
6/26/2014	89	102		25	0	
6/27/2014	80	93		23	0	
6/28/2014	50	63		21	0	
6/29/2014	49	62		21	0	
6/30/2014	48	61		21	0	
7/1/2014					0	

Total

323

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FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W347
 Ella Mae 3-3
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 July-14

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
7/1/2014	50	63		19	0	
7/2/2014	49	62		18	0	
7/3/2014	49	62		18	0	
7/4/2014	49	62		18	0	
7/5/2014	49	62		18	0	
7/6/2014	49	62		18	0	
7/7/2014	65	78		16	0	
7/8/2014	53	66		16	0	
7/9/2014	53	66		16	0	
7/10/2014	54	67		15	0	
7/11/2014	55	68		15	0	
7/12/2014	57	70		15	0	
7/13/2014	58	71		15	0	
7/14/2014	82	95		14	0	
7/15/2014	48	61		15	0	
7/16/2014	48	61		15	0	
7/17/2014	48	61		14	0	
7/18/2014	48	61		14	0	
7/19/2014	46	59		14	0	
7/20/2014	46	59		14	0	
7/21/2014	116	129		14	0	
7/22/2014	164	177		5	22	
7/23/2014	78	91		17	7	
7/24/2014	56	69		17	3	
7/25/2014	44	57		13	4	
7/26/2014	45	58		12	0	
7/27/2014	46	59		12	0	
7/28/2014	36	49		12	0	
7/29/2014	35	48		12	0	
7/30/2014	33	46		11	0	
7/31/2014	34	47		11	0	

Total 453

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 WICHITA, KS

W347
 Ella Mae 3-3
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 August-14

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	33	46	11	0 need work over rig
8/2/2014	33	46	11	0
8/3/2014	32	45	11	0
8/4/2014	48	61	11	0
8/5/2014	48	61	11	0
8/6/2014	49	62	11	0
8/7/2014	49	62	11	0
8/8/2014	50	63	11	0
8/9/2014	50	63	11	0
8/10/2014	53	66	11	0
8/11/2014	49	62	11	0
8/12/2014	40	53	11	0
8/13/2014	31	44	11	0
8/14/2014	31	44	11	0
8/15/2014	47	60	10	3
8/16/2014	30	43	11	0
8/17/2014	30	43	11	0
8/18/2014	30	43	10	0
8/19/2014	46	59	10	2
8/20/2014	41	54	10	0
8/21/2014	35	48	11	0
8/22/2014	59	72	10	0
8/23/2014	45	58	10	0
8/24/2014	47	60	10	0
8/25/2014	64	77	10	0
8/26/2014	50	63	10	0
8/27/2014	53	66	10	0
8/28/2014	52	65	10	0
8/29/2014	45	58	10	5
8/30/2014	45	58	10	0
8/31/2014	60	73	10	0

Total

327

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CONSERVATION DIVISION
 WICHITA, KS