

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow Deliverability

Test Date:
6/1/2015

API No. 15
023-20661-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 22-3	
County Cheyenne	Location NE 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 4/2/2006		Plug Back Total Depth 1765'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1766.09'	Perforations 1602'	To 1628'
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) 1402'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-1 20 15 at 11:30 (AM) (PM) Taken 6-4 20 15 at 11:40 (AM) (PM)					
Well on Line: Started 6-4 20 15 at 11:40 (AM) (PM) Taken 6-5 20 15 at 1:30 (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 96 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 _r) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _r) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						135	149.4				
Flow						45	59.4			96	

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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						0		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.207
(P_o)² =

(P_o)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _o) ² - (P _d) ² or (P _o) ² - (P _w) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	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 21 day of December, 20 15.

KCC WICHITA *Jennell Martin*

Witness (if any)

For Company

For Commission

APR 07 2016

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 Ella Mae 22-3 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: 12/21/15

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Signature: *Janell Martiny*
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.

W433 WELL ID
 Ella Mae 22-3 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 June-15 DATE

DATE	Line PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2015	88		101		0	24
6/2/2015	100		113		0	24
6/3/2015	111	131'	124		0	24
6/4/2015	121		134		0	24
6/5/2015	129		142		0	0
6/6/2015	132		145		0	0
6/7/2015	135		148		0	0
6/8/2015	137		150		0	0
6/9/2015	138	151	151		0	0 Shut in
6/10/2015	139	153	152		0	0
6/11/2015	140	154	153		0	0
6/12/2015	141	155	154		0	0
6/13/2015	141		154		0	0
6/14/2015	141		154		0	0
6/15/2015	142	144	155		0	0 Opened on pinch 4mcf
6/16/2015	107	59	120		2	0 didn't make any
6/17/2015	45		58		0	0
6/18/2015	47		60		0	0
6/19/2015	59		72		0	2
6/20/2015	109		122		0	22
6/21/2015	106		119		0	0
6/22/2015	60		73		0	0
6/23/2015	44		57		0	0
6/24/2015	45		58		0	0
6/25/2015	44		57		0	0
6/26/2015	45		58		0	0
6/27/2015	44		57		0	0 Shut in
6/28/2015	51		64		0	0
6/29/2015	65		78		0	0
6/30/2015	78	98'	91		0	0
7/1/2015	-13		0		0	0

Total

2

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W433 WELL ID
 Ella Mae 22-3 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 July-15 DATE

DATE	Line PSI	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2015	47	0	60	0	0 Shut in
7/2/2015	47	0	60	0	0
7/3/2015	47	0	60	0	0
7/4/2015	48	0	61	0	0
7/5/2015	48	0	61	0	0
7/6/2015	55	151	68	0	2
7/7/2015	47	151	60	0	0
7/8/2015	47	155	60	0	16
7/9/2015	83	155	96	0	24
7/10/2015	124	0	137	0	14
7/11/2015	98	0	111	0	0
7/12/2015	72	0	85	0	0
7/13/2015	57	0	70	0	0
7/14/2015	47	0	60	0	0
7/15/2015	46	0	59	0	0
7/16/2015	47	0	60	0	0
7/17/2015	47	0	60	0	0
7/18/2015	46	0	59	0	0
7/19/2015	98	0	111	0	0
7/20/2015	46	0	59	0	0
7/21/2015	50	0	63	0	4 Changed meter
7/22/2015	47	0	60	0	0
7/23/2015	46	0	59	0	0
7/24/2015	45	0	58	0	0
7/25/2015	46	0	59	0	0
7/26/2015	46	0	59	0	0
7/27/2015	45	0	58	0	0
7/28/2015	45	0	58	0	0
7/29/2015	45	0	58	0	0
7/30/2015	45	0	58	0	0
7/31/2015	45	0	58	0	0

Total 0

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W433 WELL ID
 Ella Mae 22-3 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 None EQUIPMENT
 August-15 DATE

DATE	Line PSI	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2015	144	0	157	0	0 Shut in
8/2/2015	144	0	157	0	0
8/3/2015	144	0	157	0	0
8/4/2015	145	158	158	0	0
8/5/2015	144	158	157	0	0
8/6/2015	144	158	157	0	0
8/7/2015	144	0	157	0	0
8/8/2015	144	0	157	0	0
8/9/2015	144	0	157	0	0
8/10/2015	144	0	157	0	0
8/11/2015	144	0	157	0	0
8/12/2015	144	0	157	0	0
8/13/2015	144	0	157	0	0
8/14/2015	144	0	157	0	0
8/15/2015	144	0	157	0	0
8/16/2015	144	0	157	0	0
8/17/2015	144	0	157	0	0
8/18/2015	144	157	157	0	0
8/19/2015	144	157	157	0	0
8/20/2015	144	0	157	0	0
8/21/2015	144	0	157	0	0
8/22/2015	144	0	157	0	0
8/23/2015	144	0	157	0	0
8/24/2015	144	0	157	0	0
8/25/2015	144	0	157	0	0
8/26/2015	144	0	157	0	0
8/27/2015	144	0	157	0	0
8/28/2015	144	0	157	0	0
8/29/2015	144	0	157	0	0
8/30/2015	144	0	157	0	0
8/31/2015	144	0	157	0	0

Total 0

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