

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

AST

(See Instructions on Reverse Side)

Test Date:
3/7/2013

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		Gas Gravity - G _g .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 3-6		20 13 at 11:35		(AM) (PM) Taken 3-7	
Well on Line: Started 3-7		20 13 at 11:45		(AM) (PM) Taken 3-8	
				20 13 at 11:45 (AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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 _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						126	140.4				
Flow						35	49.4			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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						23		

(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 13.

KCC WICHITA

Samuel Martinez
For Company

Witness (if any)

DEC 26 2013

For Commission

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.

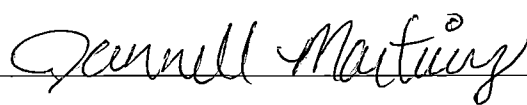
I hereby request a one-year exemption from open flow testing for the Ell Mae 3-3 gas well on the grounds that said well:

(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: 12/10/13

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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W347
 Ella Mae 3-3
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 March-13

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLE	DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
3/1/2013	35	48	25	6	12		16	
3/2/2013	38	51	25	6	12		15	
3/3/2013	29	42	25	6	12		16	
3/4/2013	28	41	26	6	12		17	
3/5/2013	55	68	26	6	6		8	shut pumping unit off cp down
3/6/2013	103	116	13	6	0		0	shut well in for state test
3/7/2013	126	121	0	6	0	24	0	open psi 126
3/8/2013	70	83	30	6	0		0	
3/9/2013	50	63	25	6	6		9	
3/10/2013	46	59	25	6	12		16	
3/11/2013	26	39	21	6	12		17	
3/12/2013	78	91	21	6	6	3	9	shut pumping unit off hfp
3/13/2013	47	60	20	6	6		8	replaced belt and started pumping unit
3/14/2013	57	70	23	6	6	1	8	shut pumping unit off hfp
3/15/2013	69	82	21	6	0		0	
3/16/2013	59	72	20	6	0		0	
3/17/2013	49	62	19	6	6		9	restart pu
3/18/2013	55	68	21	6	12		20	
3/19/2013	35	48	23	6	12		18	
3/20/2013	35	48	23	6	12		19	
3/21/2013	27	40	24	6	12		17	bucket test 5 min
3/22/2013	28	41	25	6	12		16	put on hand bad weather coming in
3/23/2013	28	41	26	6	24		33	
3/24/2013	27	40	27	6	24		32	
3/25/2013	69	82	27	6	24		31	
3/26/2013	62	75	25	6	24		32	
3/27/2013	29	42	29	6	24		33	
3/28/2013	29	42	29	6	24		34	
3/29/2013	30	43	29	6	24		33	
3/30/2013	29	42	29	6	24		34	
3/31/2013	29	42	29	6	24		33	

Total

731

533

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W347
 Ella Mae 3-3
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 April-13

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
4/1/2013	29	42	30	6	24		34	
4/2/2013	29	42	30	6	12		17	put back on auto
4/3/2013	30	43	29	6	12		16	
4/4/2013	32	45	29	6	12		15	
4/5/2013	62	75	28	6	12		16	
4/6/2013	47	60	29	6	12		17	
4/7/2013	47	60	28	6	12		16	shut pumping unit off
4/8/2013	48	61	24	6	0		0	
4/9/2013	45	58	23	6	0		0	
4/10/2013	46	59	19	6	0	2	0	
4/11/2013	30	43	20	6	0		0	
4/12/2013	25	38	22	6	6		8	restarted pu
4/13/2013	79	92	23	6	6	1	16	
4/14/2013	58	71	24	6	0		17	
4/15/2013	55	68	25	6	6		8	started pumping unit
4/16/2013	26	39	26	6	12		17	
4/17/2013	37	50	26	6	12		16	
4/18/2013	30	43	26	6	12		15	
4/19/2013	29	42	27	6	12		16	
4/20/2013	48	61	26	6	12		17	
4/21/2013	49	62	27	6	12		15	
4/22/2013	49	62	27	6	12		17	bucket test 5 min
4/23/2013	48	61	27	6	12		16	
4/24/2013	48	61	27	6	12		15	
4/25/2013	51	64	22	6	12		16	
4/26/2013	51	64	22	6	12		17	
4/27/2013	51	64	22	6	12		16	
4/28/2013	63	76	27	6	12		15	
4/29/2013	63	76	27	6	12		15	
4/30/2013	57	70	27	6	12		17	bucket test 5 min
5/1/2013								

Total

769

420

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W347
 Ella Mae 3-3
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 May-13

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBL	REMARKS (Maximum length 110 characters)
5/1/2013	58	71	28	6	12	17	
5/2/2013	62	75	28	6	12	16	
5/3/2013	53	66	24	6	6	8	belt broke
5/4/2013	49	62	22	6	6	7	replaced belt
5/5/2013	50	63	25	6	12	17	
5/6/2013	52	65	26	6	12	16	
5/7/2013	53	66	26	6	12	15	
5/8/2013	55	68	27	6	12	17	shut pu off had high pressure in pm
5/9/2013	59	72	24	6	6	8	restarted pumping unit
5/10/2013	44	57	26	6	12	16	
5/11/2013	37	50	26	6	12	17	
5/12/2013	31	44	27	6	12	15	
5/13/2013	32	45	27	6	12	15	
5/14/2013	32	45	27	6	12	14	bucket test 6 min and greased
5/15/2013	96	109	27	6	6	3	7 shut pumping unit off hfp
5/16/2013	75	88	25	6	0	0	
5/17/2013	32	45	24	6	6	7	started pumping unit
5/18/2013	29	42	24	6	12	14	
5/19/2013	29	42	24	6	12	13	
5/20/2013	26	39	24	6	12	14	
5/21/2013	26	39	24	6	12	15	
5/22/2013	59	72	25	6	6	14	7 bucket test 6 min, pu off high fp
5/23/2013	113	126	11	6	0	10	0
5/24/2013	102	115	8	6	0	4	0
5/25/2013	97	110	23	6	0	0	
5/26/2013	89	102	31	6	0	0	
5/27/2013	86	99	23	6	0	0	
5/28/2013	75	88	27	6	0	0	
5/29/2013	84	97	22	6	0	0	
5/30/2013	52	65	20	6	6	7	started pumping unit
5/31/2013	50	63	22	6	12	14	

Total 747 296

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