

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
023-20683-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 32-04	
County Cheyenne	Location SWNE	Section 4	TWP 3S	RNG (E/W) 42W	Acres Attributed
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 2/14/2007		Plug Back Total Depth 1867'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter	Set at 1867'	Perforations 1604'	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? <input checked="" type="radio"/> No <input type="radio"/> Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1874'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 3-6		20 13 at 1:10		(AM) (PM) Taken 3-7	
Well on Line: Started 3-7		20 13 at 1:25		(AM) (PM) Taken 3-8	
		20 13 at 1:25		(AM) (PM) Taken 3-8	
		20 13 at 2:10		(AM) (PM) Taken 3-8	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						118	132.4				
Flow						23	37.4			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
						8		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_g)² = _____

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

(P _c) ² - (P _a) ² or (P _c) ² - (P _g) 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.

Witness (if any)

For Commission

Arnold Martinez

For Company
KCC WICHITA
Checked by

DEC 26 2013

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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 32-04 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: *Jerrald Martinez*
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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W2425
 Ella Mae 32-04
 West St. Francis
 St. Francis
 None
 March-13

DATE	Casing PSI	STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
3/1/2013	28	41	7	7	12	22	
3/2/2013	33	46	7	7	12	21	
3/3/2013	24	37	7	7	12	20	
3/4/2013	23	36	6	7	12	21	
3/5/2013	79	92	8	7	6	11	
3/6/2013	105	105	2	7	0		0 shut well in for state test psi 105
3/7/2013	118	118	0	7	0	24	0 open well psi 118
3/8/2013	67	80	1	7	0		0
3/9/2013	47	60	11	7	6		10
3/10/2013	44	57	11	7	12		22
3/11/2013	22	35	8	7	12		21
3/12/2013	87	100	7	7	6	3	10 shut pumping unit off hfp
3/13/2013	40	53	7	7	6		9
3/14/2013	39	52	7	7	6	1	10 shut pumping unit off hfp
3/15/2013	68	81	6	7	0		0
3/16/2013	58	71	6	7	0		0
3/17/2013	47	60	6	7	6		9 restart pu
3/18/2013	52	65	7	7	12		20
3/19/2013	32	45	7	7	12		21
3/20/2013	32	45	7	7	12		22
3/21/2013	23	36	8	7	12		21 bucket test 4 min
3/22/2013	24	37	8	7	12		20 put on hand bad weather moving in
3/23/2013	24	37	8	7	24		40
3/24/2013	23	36	8	7	24		39
3/25/2013	72	85	11	7	24		38
3/26/2013	59	72	11	7	24		37
3/27/2013	23	36	10	7	24		38
3/28/2013	24	37	10	7	24		36
3/29/2013	24	37	11	7	24		35
3/30/2013	23	36	11	7	24		36
3/31/2013	23	36	11	7	24		35

Total

235

624

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W2425
 Ella Mae 32-04
 West St. Francis
 St. Francis
 None
 April-13

DATE	Casing PSI	STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
4/1/2013	23	36	12	7	12	21
4/2/2013	23	36	12	7	12	22 put back on auto
4/3/2013	24	37	11	7	12	23
4/4/2013	26	39	11	7	12	22
4/5/2013	61	74	10	7	12	21
4/6/2013	47	60	10	7	12	22
4/7/2013	47	60	10	7	12	23 shut pumping unit off
4/8/2013	46	59	8	7	0	0
4/9/2013	45	58	8	7	0	0
4/10/2013	45	58	7	7	0	2 0
4/11/2013	26	39	9	7	0	0
4/12/2013	21	34	7	7	6	11 start pu
4/13/2013	76	89	7	7	6	1 11 shut pumping unit off
4/14/2013	48	61	7	7	0	0
4/15/2013	51	64	6	7	0	0 baldore fault, active sense
4/16/2013	21	34	6	7	6	11 shut power off - restarted pu on auto
4/17/2013	30	43	7	7	12	22
4/18/2013	26	39	8	7	12	21
4/19/2013	23	36	8	7	12	20
4/20/2013	45	58	9	7	12	22
4/21/2013	46	59	10	7	12	19
4/22/2013	46	59	10	7	12	20
4/23/2013	45	58	11	7	12	21 bucket test 4 min
4/24/2013	43	56	11	7	12	20
4/25/2013	48	61	12	7	12	19
4/26/2013	61	74	11	7	12	20
4/27/2013	61	74	10	7	12	18
4/28/2013	61	74	9	7	12	18
4/29/2013	60	73	8	7	12	17
4/30/2013	55	68	8	7	12	18
5/1/2013						

Total

273

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W2425
 Ella Mae 32-04
 West St. Francis
 St. Francis
 None
 May-13

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCL	DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
5/1/2013	57	70	9	7	12		20	
5/2/2013	60	73	9	7	12		21	
5/3/2013	50	63	8	7	12		20	
5/4/2013	47	60	8	7	12		19	
5/5/2013	47	60	8	7	12		20	
5/6/2013	47	60	7	7	12		21	
5/7/2013	50	63	9	7	12		20	changed check valve
5/8/2013	53	66	9	7	12		19	shut pu off hfp in afternoon
5/9/2013	59	72	10	7	6		10	restarted pumping unit
5/10/2013	39	52	7	7	6		20	not pumping, restarted
5/11/2013	33	46	7	7	12		21	
5/12/2013	26	39	8	7	12		22	
5/13/2013	26	39	7	7	12		22	
5/14/2013	27	40	9	7	16		29	bt 4 min, greased, up timer to 16 hrs/d
5/15/2013	88	111	8	7	8	3	14	shut pumping unit off hfp
5/16/2013	79	92	8	7	0		0	
5/17/2013	27	40	8	7	8		14	started pumping unit
5/18/2013	24	37	8	7	16		28	
5/19/2013	27	40	8	7	16		27	
5/20/2013	29	42	8	7	16		28	
5/21/2013	29	29	8	7	16		27	
5/22/2013	57	70	8	7	2	14	14	pu off hfp
5/23/2013	129	142	6	7	0	10	0	
5/24/2013	99	112	3	7	0	4	0	
5/25/2013	94	107	3	7	0		0	
5/26/2013	87	100	7	7	0		0	
5/27/2013	84	97	7	7	0		0	
5/28/2013	73	86	7	7	0		0	
5/29/2013	81	94	7	7	0		0	
5/30/2013	50	63	5	7	8		14	started pumping unit
5/31/2013	47	60	5	7	16		29	

Total

229

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