

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **SI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/14/2012

API No. 15
023-20666-0000

Company Rosewood Resources, Inc.		Lease Heim		Well Number 31-33	
County Cheyenne	Location NWNE	Section 33	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 3/29/2006		Plug Back Total Depth 1799'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1799.86'	Perforations 1616'	To 1648'
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 Pumping Unit		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6	
Vertical Depth(H) 1614'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-13		20 12 at 1:55	(AM) (PM)	Taken 8-14 20 12 at 2:10 (AM) (PM)	
Well on Line: Started 8-14		20 12 at 2:10	(AM) (PM)	Taken 8-15 20 12 at 2:55 (AM) (PM)	

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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 _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						100	114.4				
Flow						44	58.4			24	

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
						54		

(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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 19 day of December, 20 12.

Witness (if any)


For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

KCC WICHITA

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.

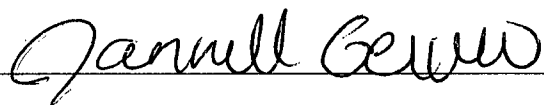
I hereby request a one-year exemption from open flow testing for the Heim 31-33
gas well on the grounds that said well:

(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: 12/19/12

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.

W436

Heim 31-33

West St. Francis

St. Francis

None

August-12

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DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2012		36	49	45	6	12		21
8/2/2012		35	48	45	6	6		10
8/3/2012		37	50	49	6	24		22
8/4/2012		55	68	52	6	24		21
8/5/2012		58	71	48	6	24		23
8/6/2012		50	63	49	6	12		23 turned to auto, good water
8/7/2012		41	54	50	6	12		21
8/8/2012		41	54	50	6	12		22
8/9/2012		37	50	50	6	12		21 bucket test 4 min
8/10/2012		35	48	51	6	12		20
8/11/2012		67	80	45	6	12	1.5	21
8/12/2012		39	52	50	6	12		22
8/13/2012		36	49	48	6	6		10 shut well into for state test psi 35
8/14/2012		100	96	0	6	4	24	5 open well psi 100 and started pumping
8/15/2012		44	57	63	6	12		21
8/16/2012		34	47	57	6	12		21 bucket test 4 min
8/17/2012		39	52	55	6	12		21
8/18/2012		38	51	55	6	12		22
8/19/2012		38	51	55	6	12		19
8/20/2012		37	50	55	6	6		11 pu off, wsf down
8/21/2012		35	48	51	6	6		12 started pumping unit
8/22/2012		35	48	51	6	12		24
8/23/2012		39	52	53	6	12		21
8/24/2012		34	47	53	6	12		21 bucket test 4 min
8/25/2012		34	47	53	6	12		22
8/26/2012		37	50	54	6	12		21
8/27/2012		37	50	54	6	12		20
8/28/2012		44	57	54	6	12		21
8/29/2012		40	53	54	6	12		22
8/30/2012		39	52	54	6	12		21 bucket test 4 min
8/31/2012		41	54	54	6	12		21

Total

1557

603

W436
 Heim 31-33
 West St. Francis
 St. Francis
 None
 September-12

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2012		40	53	54	6	12	21	
9/2/2012		40	53	54	6	12	22	
9/3/2012		40	53	54	6	12	21	
9/4/2012		38	51	49	6	6		11 shut power off and turned back on
9/5/2012		70	83	41	6	6	1	11 hfp not moving water
9/6/2012		40	53	49	6	12		21 restarted PU bucket test 4 min
9/7/2012		102	115	9	6	0	19	0
9/8/2012		106	119	0	6	0	24	0
9/9/2012		110	123	0	6	0	24	0
9/10/2012		114	127	0	6	0	24	0
9/11/2012		116	129	0	6	0	24	0
9/12/2012		118	131	0	6	0	24	0
9/13/2012		112	125	4	6	0	10	0
9/14/2012		101	114	31	6	0		0
9/15/2012		94	107	51	6	0		0
9/16/2012		89	102	50	6	0		0
9/17/2012		81	94	54	6	0		0
9/18/2012		66	79	70	6	6		0 started pumping unit
9/19/2012		80	93	53	6	3		7 shut pumping unit off hfp
9/20/2012		34	47	54	6	6		10 started pumping unit
9/21/2012		40	53	56	6	12		21
9/22/2012		39	52	55	6	12		22
9/23/2012		39	52	54	6	12		23
9/24/2012		40	53	54	6	12		22
9/25/2012		41	54	53	6	12		21 bucket test 4 min
9/26/2012		41	54	53	6	12		20
9/27/2012		40	53	53	6	12		21
9/28/2012		40	53	51	6	12		22
9/29/2012		41	54	51	6	12		19
9/30/2012		40	53	51	6	12		21
10/1/2012								

Total

1208

336

W436

Heim 31-33

West St. Francis

St. Francis

None

October-12

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KCC WICHITA

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLEDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
10/1/2012	39	52	47	6	0	0	
10/2/2012	38	51	44	6	6	10	pumping unit off restarted by royce
10/3/2012	40	53	46	6	12	19	
10/4/2012	36	49	48	6	12	20	
10/5/2012	38	51	49	6	12	21	
10/6/2012	38	51	49	6	12	20	
10/7/2012	38	51	49	6	12	19	
10/8/2012	38	51	50	6	12	21	bucket test 4 min
10/9/2012	39	52	50	6	12	20	
10/10/2012	39	52	50	6	12	19	
10/11/2012	38	51	50	6	12	20	
10/12/2012	38	51	50	6	12	21	
10/13/2012	39	52	50	6	12	22	
10/14/2012	38	51	51	6	12	23	
10/15/2012	40	53	51	6	12	20	
10/16/2012	60	73	51	6	12	21	
10/17/2012	37	50	50	6	12	20	
10/18/2012	37	50	51	6	12	19	
10/19/2012	36	49	51	6	12	21	bucket test 4 min and treated well
10/20/2012	81	94	28	6	6	10	shut pumping unit off hfp
10/21/2012	45	58	50	6	6	11	started pumping unit
10/22/2012	42	55	50	6	6	12	shut pumping unit off
10/23/2012	36	49	46	6	0	0	
10/24/2012	34	47	44	6	6	12	started pumping unit
10/25/2012	37	50	45	6	12	21	
10/26/2012	37	50	46	6	12	22	
10/27/2012	36	49	47	6	12	23	
10/28/2012	37	50	48	6	12	20	
10/29/2012	85	98	47	6	6	2	10 pu off hfp
10/30/2012	73	86	35	6	0	0	
10/31/2012	43	56	49	6	6	11	started pumping unit

Total

1472

508