

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **RSI**
 Deliverability

Test Date:
7/13/2011

API No. 15
023-20609-00 - 00

Company Rosewood Resources		Lease Zimbelman			Well Number 4-24
County Cheyenne	Location NW NW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 5/18/2005		Plug Back Total Depth 1403'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1403'	Perforations 1202'	To to 1234'
Tubing Size None 2 3/8"	Weight	Internal Diameter	Set at 1269'	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	Gas Gravity - G _g .6	
Vertical Depth(H) 1234'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-12		20 11 at 8:30	(AM) (PM) Taken 7-13	20 11 at 8:45	(AM) (PM)
Well on Line: Started 7-13		20 11 at 8:45	(AM) (PM) Taken 7-14	20 11 at 9:30	(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 _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						86	100.4				
Flow						60	74.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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
						53		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ : (P_w)² = _____ : P_o = _____ % (P_e - 14.4) + 14.4 = _____ : (P_e)² = 0.207
(P_o)² = _____

(P _e) ² - (P _w) ² or (P _e) ² - (P _o) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _o ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_o^2}$	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 28 day of December, 20 11.

Witness (if any)

For Commission

Jannell Gevel

For Company
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Checked by

APR 24 2012

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 Zimbelman 4-24 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: 12/28/11

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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Zimbelman 04-24

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None

July-11

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water	REMARKS
	PSI	PSI								
7/1/2011		61	74	47	6.5	16			23	
7/2/2011		60	73	47	6.5	16			22	
7/3/2011		60	73	47	6.5	16			21	
7/4/2011		60	73	47	6.5	16			24	
7/5/2011		60	73	47	6.5	16			22	
7/6/2011		59	72	47	6.5	16			29	4 min bt greased
7/7/2011		60	73	47	6.5	16			30	
7/8/2011		60	73	47	6.5	16			31	
7/9/2011		60	73	47	6.5	16			28	
7/10/2011		60	73	46	6.5	16			27	
7/11/2011		59	72	46	6.5	16			33	3.5 min bt
7/12/2011		59	72	46	6.5	8			15	squeezed well
7/13/2011		86	99	0	6.5	8	24		15	reopen well
7/14/2011		60	73	52	6.5	16			16	
7/15/2011		60	73	53	6.5	16			17	
7/16/2011		65	78	53	6.5	16			16	
7/17/2011		65	78	53	6.5	16			15	
7/18/2011		72	85	53	6.5	8			8	shut off pu, high field pressure
7/19/2011		63	76	45	6.5	8	2		8	restart pu
7/20/2011		60	73	47	6.5	16			16	
7/21/2011		67	80	47	6.5	8			8	pu off hfp
7/22/2011		57	70	44	6.5	8			8	restart pu
7/23/2011		57	70	46	6.5	16			29	4 min bt
7/24/2011		58	71	48	6.5	16			28	
7/25/2011		57	70	48	6.5	16			26	
7/26/2011		57	70	49	6.5	16			28	4 min bt
7/27/2011		57	70	49	6.5	16			24	
7/28/2011		58	71	49	6.5	16			23	
7/29/2011		56	69	48	6.5	16			22	
7/30/2011		60	59	50	6.5	16			24	
7/31/2011		46	59	49	6.5	16			26	

Total

1444

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Zimbeiman 04-24

St. Francis

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None

August-11

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
8/1/2011		59	72	49	6.5	16		28	
8/2/2011		58	71	49	6.5	16		30	
8/3/2011		59	72	49	6.5	16		29	4 min bt
8/4/2011		59	72	49	6.5	16		27	
8/5/2011		58	71	49	6.5	16		27	
8/6/2011		58	71	49	6.5	16		29	
8/7/2011		58	71	49	6.5	16		30	
8/8/2011		57	70	49	6.5	16		25	4.5 min bt greased
8/9/2011		58	71	49	6.5	16		26	
8/10/2011		55	68	49	6.5	16		23	
8/11/2011		69	82	49	6.5	16		20	
8/12/2011		76	89	46	6.5	8		12	pu off hfp
8/13/2011		76	89	40	6.5	0		0	
8/14/2011		84	97	37	6.5	0		0	
8/15/2011		84	97	36	6.5	0		0	
8/16/2011		60	73	36	6.5	8		12	restart pu
8/17/2011		102	115	31	6.5	8	5	12	pu off hfp
8/18/2011		56	69	33	6.5	8	4	12	restart pu
8/19/2011		64	77	36	6.5	8	1	24	
8/20/2011		57	70	39	6.5	8		22	
8/21/2011		58	71	41	6.5	8		21	
8/22/2011		57	70	42	6.5	8		14	4 min bt
8/23/2011		65	78	42	6.5	8		13	
8/24/2011		55	68	43	6.5	8		15	
8/25/2011		59	72	43	6.5	8		16	
8/26/2011		57	70	44	6.5	8		15	
8/27/2011		58	71	44	6.5	8		14	
8/28/2011		58	71	45	6.5	8		15	
8/29/2011		57	70	45	6.5	8		16	
8/30/2011		58	71	45	6.5	8		14	4 min bt
8/31/2011		58	71	46	6.5	8		16	

Total

1353

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Zimbelman 04-24

St. Francis

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None

September-11

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2011		59	72	46	6.5	8	14	
9/2/2011		58	71	46	6.5	8	13	
9/3/2011		59	72	46	6.5	8	12	
9/4/2011		59	72	46	6.5	8	12	
9/5/2011		59	72	46	6.5	8	13	
9/6/2011		57	70	46	6.5	8	11	
9/7/2011		59	72	46	6.5	8	15	3.75 min bt
9/8/2011		58	71	46	6.5	8	14	
9/9/2011		58	71	46	6.5	8	15	
9/10/2011		58	71	46	6.5	8	14	
9/11/2011		59	72	46	6.5	8	13	
9/12/2011		58	71	46	6.5	8	14	
9/13/2011		58	71	46	6.5	8	14	4 min bt
9/14/2011		59	72	46	6.5	8	11	
9/15/2011		58	71	46	6.5	8	15	
9/16/2011		58	71	46	6.5	8	12	
9/17/2011		58	71	46	6.5	8	11	
9/18/2011		58	71	46	6.5	8	15	
9/19/2011		57	70	46	6.5	8	14	
9/20/2011		57	70	39	6.5	8	9	6.5 min bt
9/21/2011		57	70	37	6.5	8	8	
9/22/2011		57	70	36	6.5	8	10	
9/23/2011		56	69	35	6.5	4		1 turned pu off, no water, need new
9/24/2011		58	71	34	6.5	4		5 replaced check valve and started p
9/25/2011		57	70	37	6.5	8	13	bucket test 4.5 min
9/26/2011		57	70	40	6.5	8	14	
9/27/2011		54	67	42	6.5	8	12	4.75 min bt
9/28/2011		61	74	43	6.5	8	14	
9/29/2011		55	68	43	6.5	8	11	
9/30/2011		54	67	44	6.5	8	13	
10/1/2011								

Total

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