

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **AST**
 Deliverability

Test Date:
8/24/2011

API No. 15
023-20610-00 - 60

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 1-18	
County Cheyenne	Location SW SW/4	Section 18	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7/1/2005		Plug Back Total Depth 1440'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1440'	Perforations 1248'	To 1282'
Tubing Size NONE 2 3/8	Weight	Internal Diameter	Set at 1309'	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1282'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in <u>8-23</u> _____ 20 <u>11</u> at <u>8:40</u> <input checked="" type="checkbox"/> (AM) (PM) Taken <u>8-24</u> _____ 20 <u>11</u> at <u>8:55</u> <input checked="" type="checkbox"/> (AM) (PM)		Well on Line: Started <u>8-24</u> _____ 20 <u>11</u> at <u>8:55</u> <input checked="" type="checkbox"/> (AM) (PM) Taken <u>8-25</u> _____ 20 <u>11</u> at <u>9:40</u> <input checked="" type="checkbox"/> (AM) (PM)			

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 _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						54	68.4				
Flow						59	73.4			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
						51		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _e) ² - (P _d) ² or (P _e) ² - (P _w) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_d^2}$	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 Company

For Commission

Checked by

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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 1-18 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, J. S.

St. Francis

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None

August-11

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2011		60	73	50	9	12	19	
8/2/2011		59	72	50	9	12	17	
8/3/2011		60	73	50	9	12	16	5.5 min bt greased
8/4/2011		59	72	50	9	6	8	pu off water leak
8/5/2011		58	71	47	9	0	0	pu off water leak
8/6/2011		59	72	45	9	0	0	pu off water leak
8/7/2011		59	72	43	9	0	0	pu off water leak
8/8/2011		58	71	43	9	6	8	restart pu
8/9/2011		58	71	45	9	12	12	7 min bt
8/10/2011		55	68	47	9	12	13	
8/11/2011		70	83	47	9	12	9	
8/12/2011		90	46	46	9	6	6	pu off high fp
8/13/2011		78	91	45	9	0	0	
8/14/2011		85	98	42	9	0	0	
8/15/2011		85	98	41	9	0	0	
8/16/2011		59	72	42	9	6	6	restart pu
8/17/2011		103	116	32	9	6	5	6 pu off hfp
8/18/2011		58	71	44	9	6	4	6 restart pu
8/19/2011		65	78	45	9	6	1	12
8/20/2011		58	71	46	9	6	11	
8/21/2011		59	72	46	9	6	13	
8/22/2011		58	71	47	9	6	10	4.5 min bt
8/23/2011		78	91	47	9	3	6	squeezed well, SI
8/24/2011		54	67	0	9	3	24	6 reopen well - restart pu
8/25/2011		60	73	51	9	6	13	
8/26/2011		58	71	52	9	6	13	
8/27/2011		59	72	51	9	6	12	
8/28/2011		59	72	50	9	6	11	
8/29/2011		59	72	51	9	6	12	
8/30/2011		59	72	51	9	6	13	
8/31/2011		59	72	51	9	6	10	4.5 min bt

Total

1397

268

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Zimbelman 1-18

St. Francis

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None

September-11

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DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
9/1/2011		60	73	51	9	12	10
9/2/2011		59	72	51	9	12	11
9/3/2011		60	73	51	9	12	13
9/4/2011		59	72	51	9	12	12
9/5/2011		59	72	51	9	12	14
9/6/2011		59	72	51	9	12	12 7 min bt
9/7/2011		60	73	51	9	6	6 pu off water leak
9/8/2011		59	72	47	9	6	6 restart pu
9/9/2011		59	72	48	9	12	12
9/10/2011		59	72	49	9	12	10
9/11/2011		60	73	49	9	12	11
9/12/2011		60	73	50	9	12	9
9/13/2011		59	72	49	9	12	14 6.25 min bt
9/14/2011		60	73	49	9	12	12
9/15/2011		58	71	49	9	12	13
9/16/2011		59	72	49	9	12	15
9/17/2011		59	72	49	9	12	13
9/18/2011		58	71	50	9	12	12
9/19/2011		59	72	50	9	12	11 7.5 min bt
9/20/2011		58	71	50	9	12	10
9/21/2011		59	72	50	9	12	9
9/22/2011		59	72	50	9	12	11 replace check valve
9/23/2011		58	71	48	9	9	8 8 min bt, changed to 9hr cycle
9/24/2011		59	72	49	9	9	7
9/25/2011		58	71	48	9	4	4 shut pumping unit off water problem
9/26/2011		58	71	46	9	4	0
9/27/2011		55	68	44	9	9	4 restart pu
9/28/2011		62	75	45	9	9	9 7.5 min bt
9/29/2011		56	69	45	9	9	8
9/30/2011		56	69	45	9	9	10
10/1/2011							

Total

1465

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Zimbelman 1:18

St. Francis

St. Francis

None

October-11

FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
10/1/2011		60	73	46	9	9	9	
10/2/2011		60	73	46	9	9	9	
10/3/2011		59	72	46	9	9	10	
10/4/2011		59	72	46	9	9	8	
10/5/2011		57	70	46	9	9	9	7 min bt
10/6/2011		60	73	46	9	9	10	
10/7/2011		60	73	47	9	9	9	
10/8/2011		58	71	47	9	9	8	
10/9/2011		59	72	47	9	9	9	
10/10/2011		59	72	46	9	9	10	6.75 min bt greased
10/11/2011		58	71	47	9	9	11	
10/12/2011		56	69	47	9	9	8	
10/13/2011		62	75	47	9	9	9	
10/14/2011		57	70	47	9	9	12	
10/15/2011		59	72	47	9	9	10	
10/16/2011		57	70	47	9	9	9	
10/17/2011		57	70	47	9	9	8	
10/18/2011		60	73	47	9	9	9	
10/19/2011		61	74	47	9	9	10	
10/20/2011		58	71	47	9	9	8	7.5 min bt
10/21/2011		58	71	46	9	9	9	
10/22/2011		58	71	46	9	9	8	
10/23/2011		58	71	46	9	9	7	
10/24/2011		58	71	46	9	9	6	
10/25/2011		58	71	46	9	9	10	6.5 min bt
10/26/2011		57	70	46	9	9	11	
10/27/2011		58	71	46	9	9	9	
10/28/2011		57	70	46	9	9	12	
10/29/2011		58	71	46	9	9	10	
10/30/2011		57	70	46	9	9	9	
10/31/2011		57	70	46	9	9	10	

Total

1439

286

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