

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/18/2013

API No. 15
023-21268-0000

Company Rosewood Resources, Inc.		Lease Zimelman			Well Number 23-24
County Cheyenne	Location NESW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/1/2010		Plug Back Total Depth 1461'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1499'	Perforations 1304'	To 1334'
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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	Gas Gravity - G _g .6
Vertical Depth(H) 1510'		Pressure Taps Flange			(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in		7-17	20 13	at 6:25	(AM) (PM) Taken 7-18
					20 13 at 6:35 (AM) (PM)
Well on Line: Started		7-18	20 13	at 6:35	(AM) (PM) Taken 7-19
					20 13 at 6:50 (AM) (PM)

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 _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						192	206.4				
Flow						54	68.4			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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						3		

(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 (Mcf/d)

Open Flow

Mcf/d @ 14.65 psia

Deliverability

Mcf/d @ 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 21 day of November, 2013.

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KANSAS CORPORATION COMMISSION

DEC 26 2013

Witness (if any)

For Company

For Commission

CONSERVATION DIVISION
WICHITA KS

Checked by

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 23-24 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: 11/21/13

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KANSAS CORPORATION SIGNATURE:



DEC 26 2013 Title: Production Assistant

CONSERVATION DIVISION
WICHITA, KS

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.

W2747
 Zimbelman 23-24
 St. Francis
 St. Francis
 Flow
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2013	55	68		4	
7/2/2013	57	70		4	
7/3/2013	55	68		4	
7/4/2013	58	71		4	
7/5/2013	58	71		4	
7/6/2013	58	71		4	
7/7/2013	69	82		4	
7/8/2013	67	80		3	
7/9/2013	65	78		3	
7/10/2013	62	75		3	
7/11/2013	66	79		3	
7/12/2013	72	85		3	
7/13/2013	75	88		4	2.5
7/14/2013	77	90		3	
7/15/2013	58	71		3	
7/16/2013	54	67		3	
7/17/2013	63	64		4	si for state test - cp 63
7/18/2013	192	94		0	24 reopened - cp 192
7/19/2013	73	86		6	
7/20/2013	74	87		3	
7/21/2013	75	88		3	
7/22/2013	71	84		3	
7/23/2013	69	82		3	
7/24/2013	76	89		3	
7/25/2013	79	92		3	
7/26/2013	67	80		3	
7/27/2013	56	69		3	
7/28/2013	58	71		4	
7/29/2013	57	70		3	
7/30/2013	92	105		3	3.5
7/31/2013	116	129		4	5.5

Total

104

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W2747
 Zimbelman 23-24
 St. Francis
 St. Francis
 Flow
 August-13
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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2013	78	91		4	
8/2/2013	78	91		4	
8/3/2013	73	86		4	
8/4/2013	74	87		4	
8/5/2013	65	78		3	
8/6/2013	56	69		3	
8/7/2013	51	64		3	
8/8/2013	55	68		3	
8/9/2013	58	71		3	
8/10/2013	56	69		3	
8/11/2013	54	67		3	
8/12/2013	54	67		3	
8/13/2013	54	67		3	
8/14/2013	54	67		3	
8/15/2013	55	68		3	0.5
8/16/2013	65	78		3	
8/17/2013	65	78		3	
8/18/2013	66	79		3	
8/19/2013	67	80		3	1.5
8/20/2013	89	102		3	1
8/21/2013	85	98		3	
8/22/2013	89	102		3	5
8/23/2013	74	87		4	
8/24/2013	83	96		3	1
8/25/2013	88	101		3	1
8/26/2013	56	69		3	
8/27/2013	52	65		3	
8/28/2013	51	64		3	
8/29/2013	94	107		3	1
8/30/2013	86	99		3	
8/31/2013	86	99		3	

Total

98

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W2747
 Zimbelman 23-24
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 St. Francis
 Flow
 September-13
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DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
9/1/2013	109	122	3	1
9/2/2013	92	105	3	
9/3/2013	162	175	3	22
9/4/2013	176	189	0	10
9/5/2013	116	129	6	
9/6/2013	90	103	6	1
9/7/2013	93	106	4	
9/8/2013	92	105	4	
9/9/2013	94	107	4	
9/10/2013	98	111	4	2
9/11/2013	143	156	4	
9/12/2013	174	187	1	18
9/13/2013	89	102	6	4
9/14/2013	74	87	3	2
9/15/2013	81	94	3	
9/16/2013	62	75	3	
9/17/2013	55	68	3	
9/18/2013	53	66	3	
9/19/2013	49	62	3	
9/20/2013	37	50	3	
9/21/2013	40	53	3	
9/22/2013	63	76	3	
9/23/2013	65	78	3	
9/24/2013	93	106	3	4
9/25/2013	86	99	3	
9/26/2013	73	86	3	
9/27/2013	54	67	3	
9/28/2013	56	69	3	
9/29/2013	56	69	3	
9/30/2013	63	76	3	
10/1/2013				

Total 99

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