

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **BSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/20/2013

API No. 15
023-20609-0000

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	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"/> 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 6-19 20 13 at 8:30		(AM) (PM) Taken 6-20 20 13 at 8:45		(AM) (PM)	
Well on Line: Started 6-20 20 13 at 8:45		(AM) (PM) Taken 6-21 20 13 at 9:30		(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 ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						126	140.4				
Flow						55	69.4			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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						38		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_d)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 _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" ----- 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 21 day of November, 20 13.

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Samuel Martinez
For Company

Witness (if any)

For Commission

DEC 26 2013

Checked by

CONSERVATION DIVISION
WICHITA KS

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)

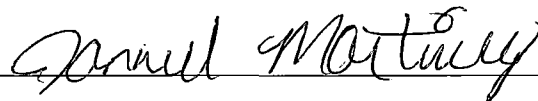
- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

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: 11/21/13

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Signature: _____



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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.

W383

Zimbelman 04-24

St. Francis

St. Francis

None

June-13

FloBoss

DATE	Casing				HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	SPM			
6/1/2013	44	57	39	6.5	11	16	
6/2/2013	49	62	38	6.5	11	14	
6/3/2013	46	59	38	6.5	11	15	
6/4/2013	45	58	38	6.5	11	12	
6/5/2013	51	64	38	6.5	11	16	
6/6/2013	57	70	38	6.5	11	15	5.25 min bt
6/7/2013	54	67	40	6.5	11	17	
6/8/2013	50	63	40	6.5	11	16	
6/9/2013	53	66	40	6.5	11	18	
6/10/2013	85	98	40	6.5	11	2	16
6/11/2013	74	87	36	6.5	6	1	7 pu off hfp
6/12/2013	72	85	34	6.5	0	0	
6/13/2013	55	68	33	6.5	6	0	7 restart pu
6/14/2013	54	67	35	6.5	11	16	
6/15/2013	59	72	37	6.5	11	15	
6/16/2013	59	72	37	6.5	11	16	
6/17/2013	55	68	38	6.5	5	0	7 pu off
6/18/2013	49	62	33	6.5	0	0	
6/19/2013	45	58	31	6.5	0	0	0 si for state test - cp 46
6/20/2013	57	70	0	6.5	5	24	7 reopened - cp 126
6/21/2013	60	73	48	6.5	11	14	5.5 min bt greased
6/22/2013	77	90	41	6.5	11	15	
6/23/2013	79	92	36	6.5	5	0	7 pu off hfp
6/24/2013	75	88	35	6.5	0	0	
6/25/2013	79	92	33	6.5	0	0	
6/26/2013	77	90	32	6.5	0	0	
6/27/2013	66	79	33	6.5	11	8	restart pu
6/28/2013	50	63	35	6.5	11	12	
6/29/2013	50	63	36	6.5	11	13	
6/30/2013	49	62	37	6.5	11	14	
7/1/2013							

Total

1069

313

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None

July-13

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DATE	Casing PSI	STATIC MCF	SPM	HRS CYCL	DOWN	Water BBL	REMARKS (Maximum length 110 characters)
7/1/2013	52	65	37	6.5	11	14	
7/2/2013	53	66	38	6.5	11	15	
7/3/2013	53	66	38	6.5	11	16	5 min bt
7/4/2013	55	68	38	6.5	11	17	
7/5/2013	55	68	38	6.5	11	13	
7/6/2013	54	67	40	6.5	11	15	
7/7/2013	67	80	40	6.5	11	13	
7/8/2013	65	78	39	6.5	11	12	
7/9/2013	62	75	39	6.5	11	11	
7/10/2013	59	72	39	6.5	11	10	
7/11/2013	63	76	40	6.5	11	12	
7/12/2013	69	82	38	6.5	5	8	shut pu off hfp and treated well
7/13/2013	72	85	32	6.5	0	2.5	0
7/14/2013	75	88	30	6.5	0	0	0
7/15/2013	55	68	30	6.5	5	8	restart pu
7/16/2013	52	65	32	6.5	11	12	
7/17/2013	48	61	34	6.5	11	13	
7/18/2013	79	92	34	6.5	5	8	pu off hfp
7/19/2013	70	83	31	6.5	0	0	
7/20/2013	71	84	29	6.5	0	0	
7/21/2013	73	86	29	6.5	0	0	
7/22/2013	68	81	27	6.5	0	0	
7/23/2013	66	79	27	6.5	5	8	restart pu
7/24/2013	73	86	30	6.5	11	16	5 min bt
7/25/2013	76	89	32	6.5	5	8	pu off hfp
7/26/2013	64	77	29	6.5	5	8	restart pu
7/27/2013	52	65	32	6.5	11	16	
7/28/2013	54	67	33	6.5	11	17	
7/29/2013	52	65	33	6.5	11	16	
7/30/2013	93	106	35	6.5	5	3.5	8 pu off hfp
7/31/2013	117	130	26	6.5	0	5.5	0

Total

1049

294

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None

August-13

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DATE	Casing PSI	STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2013	74	87	34	6.5		
8/2/2013	74	87	29	6.5		
8/3/2013	70	83	28	6.5		
8/4/2013	71	84	28	6.5		
8/5/2013	61	74	26	6.5		
8/6/2013	53	66	26	6.5	5	8 restart pu
8/7/2013	47	60	28	6.5	11	16
8/8/2013	51	64	31	6.5	11	17
8/9/2013	54	67	32	6.5	11	16
8/10/2013	51	64	32	6.5	11	15
8/11/2013	49	62	34	6.5	11	16
8/12/2013	49	62	34	6.5	11	16
8/13/2013	49	62	35	6.5	11	18
8/14/2013	50	63	35	6.5	11	15
8/15/2013	50	63	35	6.5	11	0.5 16 5 min bt greased
8/16/2013	60	73	35	6.5	11	15
8/17/2013	61	74	35	6.5	11	15
8/18/2013	62	75	36	6.5	11	15
8/19/2013	64	77	36	6.5	5	1.5 8
8/20/2013	87	100	33	6.5	0	1 0
8/21/2013	83	96	30	6.5	0	0
8/22/2013	86	99	30	6.5	0	5 0
8/23/2013	69	82	30	6.5	0	0
8/24/2013	80	93	28	6.5	0	1 0
8/25/2013	85	98	27	6.5	0	1 0
8/26/2013	52	65	27	6.5	5	8 started pumping unit
8/27/2013	48	61	28	6.5	11	16
8/28/2013	47	60	30	6.5	11	15
8/29/2013	88	101	31	6.5	5	8 pu off hfp
8/30/2013	83	96	28	6.5	0	0
8/31/2013	84	97	27	6.5	0	0

Total

958

253

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