

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **AST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/14

API No. 15
023-21250-00000

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 24-24	
County Cheyenne	Location SESW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 10/2/2010		Plug Back Total Depth 1485'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1523'	Perforations 1346'	To 1376'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Travelling Plunger? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1535'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14 at 6:15		(AM)(PM) Taken 6-15	
Well on Line: Started 6-22		20 14 at 6:25		(AM)(PM) Taken 6-23	

OBSERVED SURFACE DATA

Duration of Shut-in 360 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 _f) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _f) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						230	244.4				
Flow						74	88.4			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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						33		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.207

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

(P _c) ² - (P _d) ² or (P _c) ² - (P _w) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: P _c ² - P _w 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 12 day of December, 20 14.

Witness (if any)

Received
KANSAS CORPORATION COMMISSION

Jamall Matney
For Company

FEB 25 2015

For Commission

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 24-24 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: 12/12/14

Received
KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Samuel Matusey*
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.

W2735

Zimbelman 24-24

St. Francis

St. Francis

Flow

June-18th

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	67	80		31	0
6/2/2013	70	83		28	0
6/3/2013	83	96		28	0 turn on pumping unit
6/4/2013	83	96		20	0
6/5/2013	69	82		36	0
6/6/2013	66	80		34	0 turn off pumping unit
6/7/2013	176	189		20	9
6/8/2013	188	201		0	24
6/9/2013	200	213		0	24
6/10/2013	213	226		0	24
6/11/2013	222	235		0	24
6/12/2013	227	240		0	24
6/13/2013	228	241		0	24
6/14/2013	229	242		0	24
6/15/2013	230	243		0	24
6/16/2013	230	243		0	24
6/17/2013	231	244		0	24
6/18/2013	230	243		0	24
6/19/2013	225	238		0	24
6/20/2013	223	236		0	24
6/21/2013	221	234		0	24
6/22/2013	221	234		0	24
6/23/2013	118	131		0	5
6/24/2013	109	122		0	0
6/25/2013	103	116		0	0
6/26/2013	91	104		4	0
6/27/2013	89	102		4	0
6/28/2013	84	97		34	0
6/29/2013	81	94		41	0
6/30/2013	80	93		41	0
7/1/2013					0

Total

321

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CONSERVATION DIVISION
WICHITA, KS

W2735

Zimbelman 24-24

St. Francis

St. Francis

Flow

July-14

FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2014	74	87		39	0	19
7/2/2014	73	86		38	0	20
7/3/2014	73	86		38	0	21
7/4/2014	73	86		38	0	21
7/5/2014	73	86		38	0	19
7/6/2014	76	89		38	0	20
7/7/2014	82	95		34	0	19
7/8/2014	74	87		37	0	20
7/9/2014	77	90		37	0	21
7/10/2014	75	88		37	0	20
7/11/2014	80	93		34	0	19
7/12/2014	77	90		37	0	20
7/13/2014	74	87		33	0	21
7/14/2014	74	87		33	0	20
7/15/2014	87	100		30	0	19 3.5 min bt
7/16/2014	65	78		29	0	21
7/17/2014	69	83		31	0	20
7/18/2014	69	82		33	0	19
7/19/2014	71	84		33	0	20
7/20/2014	72	85		34	0	21
7/21/2014	133	146		34	0	20
7/22/2014	132	145		2	22	19
7/23/2014	86	99		3	7	20
7/24/2014	70	83		19	3	21
7/25/2014	80	93		22	4	8
7/26/2014	70	83		42	0	0 started pumping unit
7/27/2014	74	87		36	0	18
7/28/2014	70	83		36	0	19
7/29/2014	73	86		36	0	21
7/30/2014	72	85		36	0	20
7/31/2014	73	86		36	0	21

Total

1003

587

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CONSERVATION DIVISION
WICHITA, KS

W2735
 Zimbelman 24-24
 St. Francis
 St. Francis
 Flow
 August-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs
8/1/2014	72	85	36	6	6	12	0
8/2/2014	71	84	36	6	6	12	0
8/3/2014	66	79	30	6	6	12	0
8/4/2014	66	79	29	6	6	12	0
8/5/2014	66	79	29	6	6	12	0
8/6/2014	66	59	27	6	6	12	0
8/7/2014	66	59	27	6	6	12	0
8/8/2014	71	84	26	6	6	12	0
8/9/2014	73	86	33	6	6	12	0
8/10/2014	73	86	33	6	6	12	0
8/11/2014	76	89	33	6	6	12	0
8/12/2014	70	83	33	6	6	12	0
8/13/2014	70	83	33	6	6	12	0
8/14/2014	70	83	33	6	6	12	0
8/15/2014	79	92	21	6	6	12	3
8/16/2014	72	85	34	6	6	12	0
8/17/2014	72	85	31	6	6	12	0
8/18/2014	71	84	31	6	6	12	0
8/19/2014	79	92	24	6	6	12	2
8/20/2014	71	84	32	6	6	12	0
8/21/2014	57	70	32	6	6	12	0
8/22/2014	73	86	32	6	6	12	0
8/23/2014	68	81	32	6	6	12	0
8/24/2014	68	81	31	6	6	12	0
8/25/2014	83	96	30	6	6	12	0
8/26/2014	69	82	30	6	6	12	0
8/27/2014	75	88	30	6	6	12	0
8/28/2014	96	109	30	6	6	12	0
8/29/2014	69	82	20	6	6	12	5
8/30/2014	67	80	33	6	6	12	0
8/31/2014	74	85	36	6	6	12	0

Total

947

600

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