

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **RIS**
 Deliverability

Test Date:
6/22/14

API No. 15
023-21266-0000

Company Rosewood Resources, Inc.		Lease Zweygardt			Well Number 41-19
County Cheyenne	Location NENE	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/30/2010		Plug Back Total Depth 1466'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1505'	Perforations 1308'	To 1338'
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) 1515'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14	at 6:25	(AM) (PM) Taken 6:15	20 14 at 6:45 (AM) (PM)
Well on Line: Started 6-22		20 14	at 6:45	(AM) (PM) Taken 6-23	20 14 at 6:55 (AM) (PM)

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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						230	244.4				
Flow						60	74.4			360	

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
						7		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_d)² = 0.207
(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 12 day of December, 2014.

Received
KANSAS CORPORATION COMMISSION

Samuel M. [Signature]
For Company

Witness (if any) _____

FEB 25 2014

For Commission _____ 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 Zweygardt 41-19 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: *Jannel Matusej*
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.

W2750
 Zweygardt 41-19
 St. Francis
 St. Francis
 Flow
 June-184
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	57	70		7	0
6/2/2013	62	75		1	0
6/3/2013	79	92		6	0
6/4/2013	71	84		3	0
6/5/2013	53	66		7	0
6/6/2013	54	67		7	0
6/7/2013	175	188		3	9
6/8/2013	189	202		0	24
6/9/2013	201	214		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	231	244		0	24
6/17/2013	231	244		0	24
6/18/2013	230	243		0	24
6/19/2013	226	239		0	24
6/20/2013	220	233		0	24
6/21/2013	206	219		0	24
6/22/2013	206	219		0	24
6/23/2013	121	134		15	5
6/24/2013	112	125		10	0
6/25/2013	106	119		8	0
6/26/2013	96	109		8	0
6/27/2013	88	101		8	0
6/28/2013	59	72		8	0
6/29/2013	57	70		8	0
6/30/2013	59	72		8	0
7/1/2013					0

Total

107

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

W2750
 Zwegardt 41-19
 St. Francis
 St. Francis
 Flow
 July-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	59	72		8	0
7/2/2014	58	72		8	0
7/3/2014	59	72		7	0
7/4/2014	59	72		7	0
7/5/2014	60	73		7	0
7/6/2014	60	73		7	0
7/7/2014	69	82		7	0
7/8/2014	60	73		7	0
7/9/2014	62	75		7	0
7/10/2014	62	75		7	0
7/11/2014	65	78		7	0
7/12/2014	64	77		7	0
7/13/2014	65	78		6	0
7/14/2014	89	102		4	0
7/15/2014	56	69		6	0
7/16/2014	59	72		5	0
7/17/2014	59	72		4	0
7/18/2014	60	73		4	0
7/19/2014	56	69		5	0
7/20/2014	57	70		5	0
7/21/2014	135	148		5	0
7/22/2014	151	164		1	22
7/23/2014	82	95		8	7
7/24/2014	66	79		6	3
7/25/2014	56	69		6	4
7/26/2014	54	67		8	0
7/27/2014	56	69		5	0
7/28/2014	56	69		5	0
7/29/2014	56	69		4	0
7/30/2014	57	70		4	0
7/31/2014	58	71		2	0

Total

179

Received
 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W2750
 Zweygartd 41-19
 St. Francis
 St. Francis
 Flow
 August-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	57	70		3	0
8/2/2014	59	72		3	0
8/3/2014	59	72		3	0
8/4/2014	59	72		3	0
8/5/2014	58	71		2	0
8/6/2014	58	71		2	0
8/7/2014	59	72		2	0
8/8/2014	58	71		1	0
8/9/2014	61	74		1	0
8/10/2014	61	74		1	0
8/11/2014	70	83		1	0
8/12/2014	57	70		3	0
8/13/2014	57	70		3	0
8/14/2014	56	69		3	0
8/15/2014	62	75		3	3
8/16/2014	60	73		0	0
8/17/2014	62	75		0	0
8/18/2014	61	74		0	0
8/19/2014	69	82		2	2
8/20/2014	60	73		0	0
8/21/2014	59	72		2	0
8/22/2014	63	76		2	0
8/23/2014	56	69		2	0
8/24/2014	57	70		2	0
8/25/2014	83	96		0	0
8/26/2014	58	71		2	0
8/27/2014	62	75		0	0
8/28/2014	115	128		2	0
8/29/2014	55	68		2	5
8/30/2014	55	68		0	0
8/31/2014	68	81		1	0

Total

51

Received
 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS