

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow *SI*  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
6/22/14

API No. 15  
023-21253-0000

Company Rosewood Resources, Inc.		Lease Neitzel		Well Number 32-25	
County Cheyenne	Location SWNE	Section 25	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/18/2010		Plug Back Total Depth 1497'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1532'	Perforations 1348'	To 1378'
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	
Vertical Depth(H) 1545'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7 20 14 at 2:25 (AM) (PM) Taken 6-15 20 14 at 3:35 (AM) (PM)		Well on Line: Started 6-22 20 14 at 3:35 (AM) (PM) Taken 6-23 20 14 at 3:50 (AM) (PM)			

### OBSERVED SURFACE DATA

Duration of Shut-in 360 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P <sub>m</sub> )	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						230	244.4				
Flow						71	85.4			360	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						24		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 12 day of December, 20 14.

Received  
KANSAS CORPORATION COMMISSION

*James Mastrey*  
For Company

Witness (if any)

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 Neitze! 32-25 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

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KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION  
WICHITA, KS

Signature: *Janell Martusez*  
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.

W2734  
 Neitzel 32-25  
 St. Francis  
 St. Francis  
 Flow  
 June-18<sup>4</sup>  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013 <sup>4</sup>	73	86		26	0
6/2/2013	78	91		25	0
6/3/2013	84	97		26	0
6/4/2013	84	97		24	0
6/5/2013	69	82		26	0
6/6/2013	71	84		25	0
6/7/2013	176	189		14	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	230	243		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	223	236		0	24
6/21/2013	222	235		0	24
6/22/2013	222	235		0	24
6/23/2013	118	131		0	5
6/24/2013	116	129		5	0
6/25/2013	114	127		21	0
6/26/2013	113	126		29	0
6/27/2013	110	123		34	0
6/28/2013	79	92		32	0
6/29/2013	77	90		28	0
6/30/2013	76	89		27	0
7/1/2013					0

Total

342

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CONSERVATION DIVISION  
 WICHITA, KS

W2734  
 Neitzel 32-25  
 St. Francis  
 St. Francis  
 Flow  
 July-14  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2014	76	89		27	0
7/2/2014	75	88		26	0
7/3/2014	75	88		26	0
7/4/2014	75	88		26	0
7/5/2014	75	88		26	0
7/6/2014	75	88		26	0
7/7/2014	84	97		24	0
7/8/2014	75	88		25	0
7/9/2014	76	89		25	0
7/10/2014	76	89		25	0
7/11/2014	80	93		24	0
7/12/2014	78	91		24	0
7/13/2014	78	91		24	0
7/14/2014	90	103		24	0
7/15/2014	71	84		25	0
7/16/2014	73	86		25	0
7/17/2014	73	86		25	0
7/18/2014	74	87		25	0
7/19/2014	71	84		25	0
7/20/2014	72	85		25	0
7/21/2014	133	146		25	0
7/22/2014	132	145		1	22
7/23/2014	104	117		17	7
7/24/2014	73	86		17	3
7/25/2014	74	87		23	4
7/26/2014	72	85		25	0
7/27/2014	72	85		25	0
7/28/2014	71	84		24	0
7/29/2014	72	85		24	0
7/30/2014	72	85		24	0
7/31/2014	74	87		24	0

Total

731

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CONSERVATION DIVISION  
 WICHITA, KS

W2734  
 Neitzel 32-25  
 St. Francis  
 St. Francis  
 Flow  
 August-14  
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	72	85		24	0
8/2/2014	71	84		24	0
8/3/2014	71	84		24	0
8/4/2014	71	84		24	0
8/5/2014	72	85		24	0
8/6/2014	72	85		24	0
8/7/2014	73	86		23	0
8/8/2014	73	86		23	0
8/9/2014	74	87		23	0
8/10/2014	74	87		23	0
8/11/2014	80	93		23	0
8/12/2014	70	83		23	0
8/13/2014	71	84		23	0
8/14/2014	70	83		23	0
8/15/2014	76	89		22	3
8/16/2014	74	87		23	0
8/17/2014	75	88		23	0
8/18/2014	74	87		23	0
8/19/2014	81	94		22	2
8/20/2014	74	87		22	0
8/21/2014	73	85		23	0
8/22/2014	79	92		23	0
8/23/2014	69	82		23	0
8/24/2014	71	84		23	0
8/25/2014	89	102		23	0
8/26/2014	71	84		23	0
8/27/2014	77	90		23	0
8/28/2014	116	129		23	0
8/29/2014	70	83		21	5
8/30/2014	69	82		23	0
8/31/2014	78	91		23	0

Total

714

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 WICHITA, KS