

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **ASL**  
 Deliverability

Test Date:  
7/21/2012

API No. 15  
023-21243-0000

Company Rosewood Resources, Inc.		Lease Neitzel		Well Number 11-30	
County Cheyenne	Location NWNW	Section 30	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 9/17/2010		Plug Back Total Depth 1506'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1546'	Perforations 1330'	To 1360'
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 type="checkbox"/> No <input checked="" type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>p</sub> .6	
Vertical Depth(H) 1553'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 7-20	20 12 at 2:30	(AM) (PM) Taken 7-21	20 12 at 3:45	(AM) (PM)
Well on Line:	Started 7-21	20 12 at 3:45	(AM) (PM) Taken 7-22	20 12 at 3:55	(AM) (PM)

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### OBSERVED SURFACE DATA

Duration of Shut-in 24 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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						242	256.4				
Flow						64	78.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>d</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>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						8		

### (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" ----- 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 19 day of December, 20 12.

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Company

\_\_\_\_\_  
For Commission

\_\_\_\_\_  
Checked by

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Form G-2  
(Rev. 7/03)

JAN 03 2013

KCC WICHITA

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 Neitzel 11-30 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: 12/19/12

Signature:   
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.

W2748  
 Neitzel 11-30  
 St. Francis  
 St. Francis  
 Flow  
 July-12  
 FloBoss

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DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2012		70	83	7				
7/2/2012		61	74	7			3	
7/3/2012		76	89	7				
7/4/2012		59	72	7				
7/5/2012		58	71	7				
7/6/2012		87	100	7			1	
7/7/2012		62	75	7				
7/8/2012		65	78	7				
7/9/2012		63	76	7				
7/10/2012		62	75	7				
7/11/2012		60	73	7				
7/12/2012		67	80	7				
7/13/2012		60	73	7				
7/14/2012		60	73	7				
7/15/2012		60	73	7				
7/16/2012		74	87	7			1.5	
7/17/2012		63	76	7				
7/18/2012		72	85	7				
7/19/2012		69	80	7			0.5	
7/20/2012		65	78	7				cp 65 si for state test
7/21/2012		242	143	0			24	cp 242 opened
7/22/2012		64	77	14				
7/23/2012		70	83	8			0.5	
7/24/2012		71	84	8				
7/25/2012		73	86	8				
7/26/2012		62	75	8				
7/27/2012		84	97	7			5	
7/28/2012		69	82	7				
7/29/2012		61	74	8				
7/30/2012		58	71	8				
7/31/2012		58	71	8				

Total

224

0

W2748

Neitzel 11-30

St. Francis

St. Francis

Flow

August-12

FloBoss

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DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI					
8/1/2012		68	81	8			
8/2/2012		61	74	8			
8/3/2012		61	74	8			
8/4/2012		59	72	8			
8/5/2012		69	82	8			
8/6/2012		60	73	8			
8/7/2012		70	83	8			
8/8/2012		63	76	8			
8/9/2012		62	75	8			
8/10/2012		76	89	8			
8/11/2012		62	75	7	1.5		
8/12/2012		62	75	7			
8/13/2012		58	71	8			
8/14/2012		61	74	8			
8/15/2012		70	93	8			
8/16/2012		61	74	8			
8/17/2012		62	75	7			
8/18/2012		65	78	7			
8/19/2012		65	78	7			
8/20/2012		57	70	7			
8/21/2012		57	70	7			
8/22/2012		63	76	7			
8/23/2012		66	79	7			
8/24/2012		66	79	7			
8/25/2012		64	77	6			
8/26/2012		64	77	7			
8/27/2012		62	75	7			
8/28/2012		60	73	7			
8/29/2012		62	75	7			
8/30/2012		61	74	7			
8/31/2012		61	74	7			

Total

230

0

W2748

Neitzel 11-30

St. Francis

St. Francis

Flow

September-12

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DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
9/1/2012		61	74	7				
9/2/2012		63	76	7				
9/3/2012		61	74	7				
9/4/2012		60	73	7			1	
9/5/2012		77	90	7				
9/6/2012		77	90	7				
9/7/2012		160	173	2			19	
9/8/2012		171	184	0			24	
9/9/2012		177	190	0			24	
9/10/2012		181	194	0			24	
9/11/2012		182	195	0			24	
9/12/2012		184	197	0			24	
9/13/2012		115	128	13			10	
9/14/2012		105	118	16				
9/15/2012		97	110	10				
9/16/2012		91	104	9				
9/17/2012		82	95	9				
9/18/2012		65	78	9				
9/19/2012		79	92	7				
9/20/2012		57	70	8				
9/21/2012		57	70	8				
9/22/2012		57	70	7				
9/23/2012		67	70	7				
9/24/2012		59	72	8				
9/25/2012		63	76	8				
9/26/2012		64	77	7				
9/27/2012		71	84	7				
9/28/2012		63	76	7				
9/29/2012		64	77	7				
9/30/2012		64	77	7				
10/1/2012								

Total

198

0