

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**
 Deliverability

Test Date:
7/19/2012

API No. 15
023-21244-0000

Company Rosewood Resources, Inc.		Lease Neitzel		Well Number 21-20	
County Cheyenne	Location NENW	Section 20	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 1444'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1481'	Perforations 1224'	To 1304'
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="radio"/> No <input type="radio"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1495'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 7-18		20 12 at 2:40		(AM) <input checked="" type="radio"/> (PM) Taken 7-19	
Well on Line: Started 7-19		20 12 at 3:55		(AM) <input checked="" type="radio"/> (PM) Taken 7-20	

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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 _m)	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						235	249.4				
Flow						81	95.4			24	

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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						15		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_o)² = _____

(P _c) ² = _____ : (P _w) ² = _____ : P _d = _____ % (P _c - 14.4) + 14.4 = _____ :	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" or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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 Commission

Jamall Gevel

For Company

Checked by

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Form G-2
(Rev. 7/03)

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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.

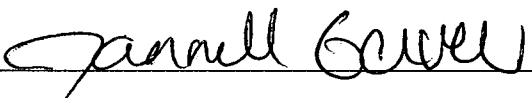
I hereby request a one-year exemption from open flow testing for the Neitzel 21-20 gas well on the grounds that said well:

(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.

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Neitzel 21-20

St. Francis

St. Francis

Flow

July-12

FloBoss

DATE	Tubing PSI	Casing PSI	STATIC MCF	SPM	HRS CYCLIDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2012		82	95	15			
7/2/2012		75	88	15		3	
7/3/2012		88	101	14			
7/4/2012		73	86	15			
7/5/2012		72	85	15			
7/6/2012		96	109	15		1	
7/7/2012		75	88	15			
7/8/2012		78	91	15			
7/9/2012		76	89	15			
7/10/2012		76	89	15			
7/11/2012		73	87	15			
7/12/2012		78	91	15			
7/13/2012		73	86	15			
7/14/2012		74	87	15			
7/15/2012		74	87	15			
7/16/2012		86	99	15		1.5	
7/17/2012		76	89	14			
7/18/2012		70	83	14			cp 71 si for state test
7/19/2012		235	173	0		24	cp235 opened
7/20/2012		81	94	24			
7/21/2012		81	94	16			
7/22/2012		76	89	16			
7/23/2012		81	94	15		0.5	
7/24/2012		83	96	15			
7/25/2012		83	96	15			
7/26/2012		79	92	15			
7/27/2012		94	197	13		5	
7/28/2012		81	94	15			
7/29/2012		73	86	15			
7/30/2012		71	84	15			
7/31/2012		71	84	15			

Total

456

0

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Neitzel 21-20

St. Francis

St. Francis

Flow

August-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2012		80	93	15				
8/2/2012		73	86	15				
8/3/2012		73	86	15				
8/4/2012		71	84	15				
8/5/2012		80	93	15				
8/6/2012		72	85	15				
8/7/2012		76	89	15				
8/8/2012		75	88	15				
8/9/2012		73	86	15				
8/10/2012		86	99	15				
8/11/2012		75	88	14		1.5		
8/12/2012		71	84	14				
8/13/2012		71	84	15				
8/14/2012		72	85	15				
8/15/2012		82	95	15				
8/16/2012		72	85	15				
8/17/2012		74	87	14				
8/18/2012		75	88	14				
8/19/2012		76	89	14				
8/20/2012		70	83	14				
8/21/2012		78	91	14				
8/22/2012		74	87	14				
8/23/2012		77	90	14				
8/24/2012		74	87	14				
8/25/2012		76	89	14				
8/26/2012		72	85	14				
8/27/2012		72	85	14				
8/28/2012		73	86	14				
8/29/2012		74	87	14				
8/30/2012		73	86	14				
8/31/2012		73	86	14				

Total

448

0

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Neitzel 21-20

St. Francis

St. Francis

Flow

September-12

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
9/1/2012		73	86	14			
9/2/2012		76	89	14			
9/3/2012		73	86	14			
9/4/2012		72	85	14		1	
9/5/2012		86	99	14			
9/6/2012		86	99	14			
9/7/2012		164	177	4		19	
9/8/2012		171	184	8		24	
9/9/2012		177	190	0		24	
9/10/2012		181	194	0		24	
9/11/2012		183	196	0		24	
9/12/2012		183	196	0		24	
9/13/2012		132	145	20		10	
9/14/2012		120	133	24			
9/15/2012		110	123	19			
9/16/2012		104	117	17			
9/17/2012		96	109	17			
9/18/2012		80	93	17			
9/19/2012		91	104	16			
9/20/2012		73	86	16			
9/21/2012		73	86	16			
9/22/2012		72	85	15			
9/23/2012		72	85	15			
9/24/2012		73	86	15			
9/25/2012		77	90	15			
9/26/2012		77	90	15			
9/27/2012		83	96	15			
9/28/2012		76	89	15			
9/29/2012		76	89	15			
9/30/2012		76	89	15			
10/1/2012							

Total

393

0