

CORRECTED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

Open Flow **RFI**
Deliverability

(See Instructions on Reverse Side)

Test Date:
4/13/2011

API No. 15
181-20399-00 - ∞

Company Rosewood Resources	Lease Armstrong	Well Number 41-12
County Sherman	Location NENE	Section 12
	TWP 9S	RNG (E/W) 40W
	Acres Attributed 80	

Field Goodland	Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.
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Completion Date 2/18/2006	Plug Back Total Depth 1191'	Packer Set at
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Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1191'	Perforations 928'	To 960'
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? Flowing	Yes / <input checked="" type="radio"/> No
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Producing Thru (Annulus / Tubing) Annulus	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6
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Vertical Depth(H) 960'	Pressure Taps Flange	(Meter Run) (Prover) Size 2"
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Pressure Buildup: Shut in	4-12	20	11	at	10:35	<input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM)	Taken	4-13	20	11	at	10:45	<input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM)
Well on Line: Started	4-13	20	11	at	10:45	<input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM)	Taken	4-14	20	11	at	11:35	<input checked="" type="radio"/> (AM) <input checked="" type="radio"/> (PM)

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 ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						10	24.4				
Flow						0	14.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (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
						2		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P₁)² = 0.207

(P₀)² =

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

(P _c) ² - (P ₁) ² or (P _c) ² - (P ₀) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P ₁ ² 2. P _c ² - P ₀ ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_1^2}$	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
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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 6 day of June, 20 12

Witness (if any)

For Commission

Samuel Green
For Company

Checked by

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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.

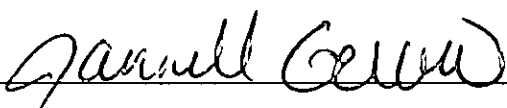
I hereby request a one-year exemption from open flow testing for the Armstrong 41-12 gas well on the grounds that said well:

(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: 6/6/12

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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W443
 Armstrong 41-12
 South Goodland
 Goodland
 None
 April-11

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
4/1/2011	0	13		3	0
4/2/2011	0	13		3	0
4/3/2011	0	13		3	0
4/4/2011	0	13		3	0
4/5/2011	0	13		3	0
4/6/2011	0	13		3	0
4/7/2011	0	13		3	0
4/8/2011	0	13		3	0
4/9/2011	0	13		3	0
4/10/2011	0	13		3	0
4/11/2011	0	13		3	0
4/12/2011	0	13		3	0 shut in for test
4/13/2011	10	13		0	24 bp, opened up
4/14/2011	0	13		4	0
4/15/2011	0	13		2	0
4/16/2011	0	13		3	0
4/17/2011	0	13		3	0
4/18/2011	0	13		3	0
4/19/2011	0	13		3	0
4/20/2011	0	13		3	0
4/21/2011	0	13		2	0
4/22/2011	0	13		2	0
4/23/2011	0	13		2	0
4/24/2011	0	13		2	0
4/25/2011	0	13		2	0
4/26/2011	0	13		2	0
4/27/2011	0	13		2	0
4/28/2011	0	13		2	0
4/29/2011	0	13		2	0
4/30/2011	0	13		2	0
5/1/2011					

Total

77

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W443
 Armstrong 41-12
 South Goodland
 Goodland
 None
 May-11

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
5/1/2011	0	13		2	0	
5/2/2011	0	13		2	0	
5/3/2011	0	13		2	0	new bat
5/4/2011	0	13		2	0	
5/5/2011	0	13		3	0	
5/6/2011	0	13		2	0	
5/7/2011	0	13		2	0	
5/8/2011	0	13		2	0	
5/9/2011	0	13		2	0	
5/10/2011	0	13		2	0	
5/11/2011	0	13		2	0	
5/12/2011	0	13		2	0	
5/13/2011	0	13		2	0	
5/14/2011	0	13		2	0	
5/15/2011	0	13		2	0	
5/16/2011	0	13		2	0	
5/17/2011	0	13		2	0	
5/18/2011	0	13		2	0	
5/19/2011	0	13		2	0	
5/20/2011	0	13		2	0	
5/21/2011	0	13		2	0	
5/22/2011	0	13		2	0	
5/23/2011	0	13		2	0	
5/24/2011	0	13		2	0	
5/25/2011	0	13		2	0	
5/26/2011	0	13		2	0	
5/27/2011	0	13		2	0	
5/28/2011	0	13		2	0	
5/29/2011	0	13		2	0	
5/30/2011	0	13		2	0	
5/31/2011	0	13		2	0	

Total

63

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W443
 Armstrong 41-12
 South Goodland
 Goodland
 None
 June-11

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
6/1/2011	0	13		3	0	
6/2/2011	0	13		2	0	
6/3/2011	0	13		2	0	
6/4/2011	0	13		2	0	
6/5/2011	0	13		3	0	
6/6/2011	0	13		2	0	
6/7/2011	0	13		2	0	
6/8/2011	0	13		2	0	
6/9/2011	0	13		2	0	
6/10/2011	0	13		2	0	
6/11/2011	0	13		2	0	
6/12/2011	0	13		2	0	
6/13/2011	0	13		2	0	
6/14/2011	0	13		1	0	added battery
6/15/2011	0	13		2	0	
6/16/2011	0	13		2	0	
6/17/2011	0	13		2	0	
6/18/2011	0	13		2	0	
6/19/2011	0	13		2	0	
6/20/2011	0	13		2	0	
6/21/2011	0	13		2	0	
6/22/2011	0	13		2	0	
6/23/2011	0	13		2	0	
6/24/2011	0	13		2	0	
6/25/2011	0	13		2	0	
6/26/2011	0	13		2	0	
6/27/2011	1	14		2	0	
6/28/2011	0	13		2	0	
6/29/2011	0	13		3	0	
6/30/2011	1	14		2	5	
7/1/2011	0	0		0	0	

Total

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