

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**  
 Deliverability

Test Date:  
6/26/2012

API No. 15  
023-20632-0000

Company: Rosewood Resources, Inc.      Lease: Alvin      Well Number: 44-08

County: Cheyenne      Location: SESE/4      Section: 8      TWP: 3S      RNG (E/W): 41W      Acres Attributed: 80

Field: St. Francis      Reservoir: Niobrara      Gas Gathering Connection: Branch Systems Inc.

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Completion Date: 10/22/2005      Plug Back Total Depth: 1537'      Packer Set at:

**JAN 03 2013**

Casing Size: 2 7/8"      Weight: 6.5#      Internal Diameter: 2.441"      Set at: 1552'      Perforations: 1419'      To: 1451'

**KCC WICHITA**

Tubing Size: NONE      Weight:      Internal Diameter:      Set at:      Perforations:      To:

Type Completion (Describe): Single (Conventional)      Type Fluid Production:      Pump Unit or Traveling Plunger? Yes / **No** flowing

Producing Thru (Annulus / Tubing): Annulus      % Carbon Dioxide:      % Nitrogen:      Gas Gravity - G<sub>g</sub>: .6

Vertical Depth(H): 1451'      Pressure Taps: Flange      (Meter Run) (Prover) Size: 2"

Pressure Buildup: Shut in 6-26 20 12 at 10:20 **(AM)** (PM) Taken 6-27 20 12 at 10:35 **(AM)** (PM)  
 Well on Line: Started 6-27 20 12 at 10:35 **(AM)** (PM) Taken 6-28 20 12 at 11:20 **(AM)** (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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						182	196.4				
Flow						116	130.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</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>
						14		

### (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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (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) \_\_\_\_\_

*Jannell Clevor*  
For Company

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

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

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Form G-2  
(Rev. 7/03)

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 Alvin 44-8 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: Jannell Galloway  
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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W2087  
 Alvin 44-8  
 St. Francis  
 St. Francis  
 None  
 June-12

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2012	95	108		14	
6/2/2012	95	108		14	
6/3/2012	98	111		14	
6/4/2012	97	110		14	
6/5/2012	93	106		14	
6/6/2012	94	107		14	
6/7/2012	94	107		14	
6/8/2012	95	108		14	
6/9/2012	95	108		14	
6/10/2012	93	106		14	
6/11/2012	94	107		14	
6/12/2012	94	107		14	
6/13/2012	94	107		14	
6/14/2012	94	107		14	
6/15/2012	96	109		14	
6/16/2012	94	107		14	
6/17/2012	94	107		14	
6/18/2012	98	111		14	
6/19/2012	96	109		13	
6/20/2012	97	110		13	
6/21/2012	99	112		13	
6/22/2012	102	115		13	
6/23/2012	102	115		13	
6/24/2012	98	111		14	
6/25/2012	100	113		13	cp 106 si for state test
6/26/2012	<del>182</del>	70		0	24 cp 182 opened
6/27/2012	116	129		14	
6/28/2012	112	125		15	
6/29/2012	110	123		15	
6/30/2012	104	117		14	
7/1/2012					

Total

402

W2087  
 Alvin 44-8  
 St. Francis  
 St. Francis  
 None  
 July-12

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2012	105	118		14	
7/2/2012	99	112		14	3
7/3/2012	111	124		14	
7/4/2012	98	111		14	
7/5/2012	97	110		14	
7/6/2012	96	109		14	1
7/7/2012	97	110		14	
7/8/2012	98	111		14	
7/9/2012	98	111		14	
7/10/2012	98	111		14	
7/11/2012	97	110		13	
7/12/2012	97	110		14	
7/13/2012	97	110		14	
7/14/2012	97	110		14	
7/15/2012	98	111		14	
7/16/2012	105	118		13	1.5
7/17/2012	97	110		14	
7/18/2012	96	109		14	
7/19/2012	100	113		13	0.5
7/20/2012	102	115		13	
7/21/2012	103	116		13	
7/22/2012	101	114		14	
7/23/2012	99	112		14	0.5
7/24/2012	103	116		13	
7/25/2012	107	120		13	
7/26/2012	96	109		14	
7/27/2012	113	126		13	5
7/28/2012	103	116		14	
7/29/2012	97	110		14	
7/30/2012	97	110		13	
7/31/2012	96	109		13	

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Total 424

W2087  
 Alvin 44-8  
 St. Francis  
 St. Francis  
 None  
 August-12

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DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
8/1/2012	97	110		13	
8/2/2012	98	111		13	
8/3/2012	97	110		13	
8/4/2012	95	108		13	
8/5/2012	95	108		13	
8/6/2012	95	108		13	
8/7/2012	97	110		13	
8/8/2012	98	111		13	
8/9/2012	96	109		13	
8/10/2012	109	122		13	
8/11/2012	96	109		13	1.5
8/12/2012	95	108		13	
8/13/2012	95	108		13	
8/14/2012	93	106		13	
8/15/2012	94	107		13	
8/16/2012	93	106		13	
8/17/2012	93	106		13	
8/18/2012	94	107		13	
8/19/2012	95	108		13	
8/20/2012	94	107		13	
8/21/2012	94	107		13	
8/22/2012	95	108		13	
8/23/2012	95	108		13	
8/24/2012	97	110		13	
8/25/2012	97	110		13	
8/26/2012	95	108		13	
8/27/2012	94	107		13	
8/28/2012	94	107		13	
8/29/2012	96	109		13	
8/30/2012	95	108		13	
8/31/2012	95	108		13	

Total

403