

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

Type Test:

Open Flow **RIS**  
Deliverability

(See Instructions on Reverse Side)

Test Date:  
9/28/2011

API No. 15  
023-20632-00 - ∞

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.	
Completion Date 10/22/2005		Plug Back Total Depth 1537'		Packer Set at	
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1552'	Perforations 1419'	To 1451'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single (Conventional)	Type Fluid Production	Pump Unit or Traveling Plunger? flowing	Yes <input checked="" type="radio"/> No
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 9-27	20 11 at 10:20	(AM) (PM) Taken 9-28	20 11 at 10:35 (AM) (PM)
Well on Line: Started 9-28	20 11 at 10:35	(AM) (PM) Taken 9-29	20 11 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						156	170.4				
Flow						114	128.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>r</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>
						15		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 0.207

(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>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</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>w</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: $P_c^2 - P_w^2$	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 28 day of December, 20 11.

Witness (if any)

For Commission

*Jamell Bell*  
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 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: 12/28/11

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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W2087  
 Alvin 44-8  
 St. Francis  
 St. Francis  
 None  
 September-11

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
9/1/2011	111	125	15	0	
9/2/2011	113	126	15	0	
9/3/2011	113	127	15	0	
9/4/2011	110	124	15	0	
9/5/2011	110	124	15	0	
9/6/2011	112	126	15	0	
9/7/2011	112	126	15	0	
9/8/2011	113	126	15	0	
9/9/2011	115	126	15	0	
9/10/2011	115	127	15	0	
9/11/2011	113	127	15	0	
9/12/2011	116	128	15	0	
9/13/2011	114	128	15	0	
9/14/2011	111	127	15	0	
9/15/2011	113	125	15	0	
9/16/2011	113	126	15	0	
9/17/2011	114	127	15	0	
9/18/2011	114	128	15	0	
9/19/2011	114	128	15	0	
9/20/2011	114	128	15	0	
9/21/2011	114	128	15	0	
9/22/2011	115	128	15	0	
9/23/2011	117	129	15	0	
9/24/2011	115	129	15	0	
9/25/2011	115	128	15	0	
9/26/2011	130	129	15	0	
9/27/2011	115	129	15	0	
9/28/2011	156	127	0	24	si for state test
9/29/2011	146	165	18	0	
9/30/2011	126	148	17	0	
10/1/2011	0	0	0	0	

Total

440

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W2087  
 Alvin 44-8  
 St. Francis  
 St. Francis  
 None  
 October-11

DATE	Casing		MCF	HRS	REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN	
10/1/2011	123	139		16	0
10/2/2011	121	136		16	0
10/3/2011	120	135		15	0 gas alert meter sounded at meter shed
10/4/2011	119	134		15	0
10/5/2011	118	133		15	0
10/6/2011	119	132		15	0
10/7/2011	120	133		15	0
10/8/2011	118	132		15	0
10/9/2011	116	131		15	0
10/10/2011	117	131		15	0
10/11/2011	115	132		15	0
10/12/2011	114	128		15	0
10/13/2011	135	130		14	0
10/14/2011	112	129		15	0
10/15/2011	112	125		15	0
10/16/2011	111	126		15	0
10/17/2011	112	125		15	0
10/18/2011	160	135		14	0 gas alert meter sounded at meter shed
10/19/2011	78	103		16	0 cleaned plate
10/20/2011	83	86		15	0
10/21/2011	74	87		15	0
10/22/2011	73	86		15	0
10/23/2011	73	86		15	0
10/24/2011	75	86		15	0
10/25/2011	73	86		15	0
10/26/2011	87	86		15	0
10/27/2011	92	114		15	0
10/28/2011	95	92		15	0
10/29/2011	85	93		15	0
10/30/2011	81	91		15	0
10/31/2011	92	93		14	0

Total

465

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W2087  
 Alvin 44-8  
 St. Francis  
 St. Francis  
 None  
 November-11

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
11/1/2011	75	91	15	0	
11/2/2011	96	90	15	0	
11/3/2011	76	104	15	0	
11/4/2011	83	90	15	0	
11/5/2011	83	89	15	0	
11/6/2011	88	90	15	0	
11/7/2011	80	95	15	0	
11/8/2011	117	95	14	0	
11/9/2011	98	100	15	0	
11/10/2011	94	91	15	0	
11/11/2011	76	92	14	0	
11/12/2011	85	91	14	0	
11/13/2011	108	90	15	0	
11/14/2011	82	92	15	0	
11/15/2011	87	99	14	0	
11/16/2011	92	93	15	0	
11/17/2011	98	90	14	0	
11/18/2011	82	91	14	0	
11/19/2011	76	89	15	0	
11/20/2011	75	98	14	0	
11/21/2011	77	90	14	0	
11/22/2011	77	90	14	0	
11/23/2011	78	96	14	0	
11/24/2011	78	92	14	0	
11/25/2011	77	92	15	0	
11/26/2011	77	88	15	0	
11/27/2011	74	91	14	0	
11/28/2011	74	89	14	0	
11/29/2011	74	91	14	0	
11/30/2011	76	96	15	0	
12/1/2011	0	0	0	0	

Total

436

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