

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

Type Test:

Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/18/2007

API No. 15  
023-20638-00 -00

Company Rosewood Resources, Inc.		Lease Alvin		Well Number 33-08	
County Cheyenne	Location NESE/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 1-15-2006		Plug Back Total Depth 1614"		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1430'	Perforations 1430'	To 1460'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production		Pump Unit or Traveling Plunger? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1430'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7/18 20 07 at 11:25 (AM) (PM) Taken 7/19 20 07 at 2:05 (AM) (PM)					
Well on Line: Started 7/19 20 07 at 2:05 (AM) (PM) Taken 7/20 20 07 at 12:25 (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	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>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						80	94.4				
Flow						40	54.4				0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</sub> ) (F <sub>v</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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						19		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

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

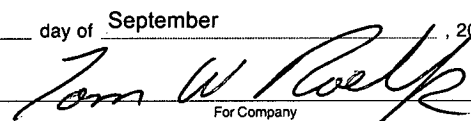
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ :

(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: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" 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 25 day of September, 2007.

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

  
For Company  
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NOV 02 2007

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.

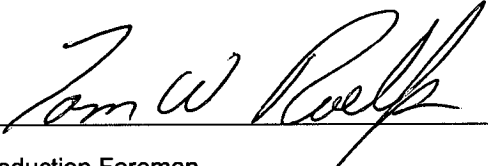
I hereby request a one-year exemption from open flow testing for the Alvin 33-08 gas well on the grounds that said well:

(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: 9/25/2007

Signature:   
Title: Production Foreman

**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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CONSERVATION DIVISION  
WICHITA, KS

W361  
 Alvin 33-08  
 St. Francis  
 St. Francis  
 Pumping Unit/elec  
 July-07

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
7/1/2007			39	23			0	7	
7/2/2007			39	23			0	5	
7/3/2007			40	28			0	5	bp
7/4/2007		40	39	22			0	6	
7/5/2007			39	22			0	7	
7/6/2007			39	23			0	7	
7/7/2007			37	22			0	8	
7/8/2007			39	22			0	6	
7/9/2007			125	10			12	5	
7/10/2007			138	1			15	7	
7/11/2007			111	4	6.5	5	12	7	bp
7/12/2007			68	28			0	6	
7/13/2007			42	26			0	6	
7/14/2007			40	24			0	5	
7/15/2007			39	23			0	6	bp
7/16/2007			39	23			0	7	
7/17/2007			42	22			0	6	5.5 min water test greased
7/18/2007		40	39	22			0	6	
7/19/2007			35	7			0	0	si 24 hr test cp - 80
7/20/2007			40	19			0	8	
7/21/2007			41	24			0	6	
7/22/2007			41	24			0	4	
7/23/2007			41	24			0	5	
7/24/2007			41	17	6.5	5	4	0.5	
7/25/2007			42	22			0	1	
7/26/2007			41	20			0	1	
7/27/2007			40	19			0	1	
7/28/2007			39	18			0	1	
7/29/2007			39	19			0	1	
7/30/2007			39	20			0	1	bp
7/31/2007			40	20	6.5	5	0	0.5	7 min water test

Total

621

142

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CONSERVATION DIVISION  
 WICHITA, KS

W361

Alvin 33-08

St. Francis

St. Francis

Pumping Unit/elec

August-07

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	DOWN	Water	REMARKS
	PSI	PSI								
8/1/2007			40	20	6.5	0.5	0	0.5		
8/2/2007			40	19	6.5	0.5	0	0.5		
8/3/2007			40	20	6.5	0.5	0	0.5		
8/4/2007			43	19	6.5	0.5	0	0.5		
8/5/2007			44	19	6.5	0.5	0	0.5		
8/6/2007			44	19	6.5	0.5	0	0.5		
8/7/2007			45	19	6.5	0.5	0	0.5		
8/8/2007			49	19	6.5	0.5	0	0.5	8 min water test	
8/9/2007			126	19	6.5	0.5	12	0.5		
8/10/2007			118	4	6.5	0.5	0	0.5		
8/11/2007			104	19	6.5	0.5	0	0.5		
8/12/2007			95	19	6.5	0.5	0	0.5		
8/13/2007			92	19	6.5	0.5	0	0.5		
8/14/2007			85	19	6.5	0.5	0	0.5	bp	
8/15/2007			89	18	6.5	0.5	0	0.5	5 min water test hfp	
8/16/2007			52	19	6.5	0.5	0	0.5		
8/17/2007			46	19	6.5	0.5	0	0.5		
8/18/2007			46	19	6.5	0.5	0	0.5		
8/19/2007			46	19	6.5	0.5	0	0.5	bp	
8/20/2007			46	19	6.5	0.5	0	0.5		
8/21/2007			46	19	6.5	0.5	0	0.5		
8/22/2007			46	19	6.5	0.5	0	0.5	8 min water test	
8/23/2007			46	19	6.5	0.5	0	0.5		
8/24/2007			47	19	6.5	0.5	0	0.5		
8/25/2007			50	19	6.5	0.5	0	0.5		
8/26/2007			49	19	6.5	0.5	0	0.5		
8/27/2007			55	19	6.5	0.5	0	0.5	bp	
8/28/2007			56	19	6.5	0.5	0	0.5		
8/29/2007			69	18	6.5	0.5	0	0.5		
8/30/2007			69	18	6.5	0.5	0	0.5		
8/31/2007			69	18	6.5	0.5	0	0.5		

Total

572

15.5

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CONSERVATION DIVISION  
WICHITA, KS

W361

Alvin 33-08

St. Francis

St. Francis

Pumping Unit/elec

September-07

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
9/1/2007			60	19	6.5	0.5	0	0.5	
9/2/2007			63	18	6.5	0.5	0	0.5	
9/3/2007			63	18	6.5	0.5	0	0.5	
9/4/2007			49	18	6.5	0.5	0	0.5	shut pump off hfp
9/5/2007			128	13	0	0	7	0	
9/6/2007			93	17	0	0	0	0	
9/7/2007			95	16	0	0	3	0	
9/8/2007			67	18	0	0	0	0	
9/9/2007			43	18	0	0	0	0	0 bp restart pump
9/10/2007			44	18	6.5	0.5	0	0.5	
9/11/2007			45	18	6.5	0.5	0	0.5	
9/12/2007			48	18	6.5	0.5	0	0.5	7 min water test
9/13/2007			56	18	6.5	0.5	0	0.5	
9/14/2007			60	18	6.5	0.5	0	0.5	
9/15/2007			70	17	6.5	0.5	0	0.5	
9/16/2007			77	17	6.5	0.5	0	0.5	
9/17/2007			75	18	6.5	0.5	0	0.5	
9/18/2007			60	18	6.5	0.5	0	0.5	si
9/19/2007			149	5	0	0	0	0	si
9/20/2007			156	0	0	0	0	0	si
9/21/2007		65	66	0	0	0	0	0	0 opened @ 2:30 pm
9/22/2007			81	20	0	0	0	0	
9/23/2007			78	18	0	0	0	0	
9/24/2007			58	20	0	0	0	0	0 bp
9/25/2007			45	21	0	0	0	0	
9/26/2007			37	20	0	0	0	0	
9/27/2007			73	19	0	0	0	0	
9/28/2007		109	73	19	0	0	0	0	0 si
9/29/2007			152	3	0	0	0	0	0 si
9/30/2007			157	0		0	0	0	0 si
10/1/2007									

Total

460

6.5

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