

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
12/8/2006

API No. 15  
181-20452-01-00

Company Rosewood Resources, Inc.		Lease Yarger		Well Number 21-11H	
County Sherman	Location NENW	Section 11	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 11/06/2006		Plug Back Total Depth 3029'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 3029'	Perforations 2925' & 1215'	To 2940' & 1230'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Horizontal)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? Yes / <input checked="" type="radio"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	Gas Gravity - G <sub>g</sub> .6
Vertical Depth(H) 3084'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)					
Well on Line: Started 12-8 _____ 20 _____ 06 at 10:15 <input checked="" type="radio"/> (AM) (PM) Taken 12-9 _____ 20 _____ 06 at 10:15 <input checked="" type="radio"/> (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter or 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						53	67.4				
Flow						4	18.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>
						3		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

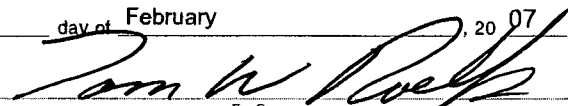
(P<sub>e</sub>)<sup>2</sup> = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>e</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>a</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>e</sub> ) <sup>2</sup> or (P <sub>e</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>e</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_e^2}$	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 12 day of February, 20 07.

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

  
\_\_\_\_\_  
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.

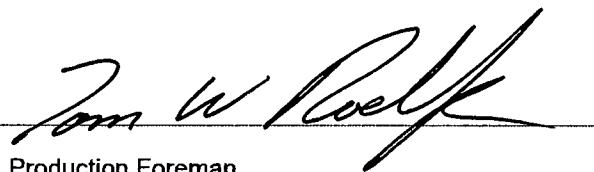
I hereby request a one-year exemption from open flow testing for the Yarger 21-11H gas well on the grounds that said well:

(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: 2/12/2007

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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Monthly Gauge Sheet

Well Name: Yager 21-11 H

Pumper: \_\_\_\_\_

Month 12/06

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1								
2								
3								
4								
5								
6								
7								
8								Put on line 10:15 AM
<del>9</del>	43		5			30		30 mcf 53# CP
<del>10</del>	23		3			10		
<del>11</del>	16		3			3		
12	17		3			4		
13	17		3			4		BP
14	17		1			4		CD
15	19		3			6		
16	19		3			6		
17	17		3			4		
18	17		3			4		
19	16		3			3		BP
20	14		3			1		
21	16		3			3		
22	16		3			3		
23	17		3			4		
24	17		3			4		
25	17		3			4		
26	16		3			3		
27	15		3			2		
28	15		3			2		
29	15		3			2		
30	15		3			2		
31	15		3			2		
Totals								

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Monthly Gauge Sheet ✓

Well Name: Yager 21-11 H

Pumper: \_\_\_\_\_ Month 1/07

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	15		3			2		
2	15		3			2		
3	15		3			2		
4	15		3			2		BP
5	15		3			2		
6	15		3			2		cupnes
7	13		3			2		
8	15		3			2		
9	15		3			2		FRAC
10	16		<del>48</del> 50			3		BP
11	16		0			3		
12								
13								
14								
15	Put back on line 9:30 AM					35		35psi on 18/64choke
16	56		55			43		Put on line 9:30 AM
17	55		67			42		50 MCF
18	54		71			41		
19	53		73			40		
20	53		68			40		
21	56		61			43		
22	54		65			41		
23	49		69			36		
24	48		73			35		
25	47		68			34		
26	47		64			34		BP
27	46		64			33		
28	47		57			34		
29	46		60			33		
30	45		62			32		
31	44		64			31		
Totals								

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Monthly Gauge Sheet ✓

Well Name: Yager 2H1 H

Pumper: \_\_\_\_\_

Month 2/07

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	43		59			30		
2	42		53			29		
3	45		53			32		
4	43		56			30		
5	42		59			29		BP fuse
6	41		53			28		
7	41		51			28		
8	41		58			28		
9	41		53			28		BP
10	40		54			27		
11	40		60			27		Open to 90 MCFD
12	32		76			19		BP
13	37		61			24		
14	31		62			18		
15	30		59			17		BP
16								
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