

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

(See Instructions on Reverse Side)

Type Test:

- Open Flow **ASTI**  
 Deliverability

Test Date:  
2/4/2010

API No. 15  
15-18120396-00 - 00

Company <b>Rosewood Resources</b>		Lease <b>Yarger</b>		Well Number <b>43-02</b>	
County <b>Sherman</b>	Location <b>NESE</b>	Section <b>2</b>	TWP <b>7S</b>	RNG (EW) <b>39W</b>	Acres Attributed <b>80</b>
Field <b>Goodland</b>		Reservoir <b>Niobrara</b>	Gas Gathering Connection <b>Branch Systems Inc.</b>		
Completion Date <b>2-25-2006</b>		Plug Back Total Depth <b>1094'</b>	Packer Set at		
Casing Size <b>2 7/8"</b>	Weight <b>6.5#</b>	Internal Diameter <b>2.441</b>	Set at <b>1095.73'</b>	Perforations <b>952'</b>	To <b>978'</b>
Tubing Size <b>none</b>	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) <b>Single (Conventional)</b>	Type Fluid Production <b>Dry Gas</b>	Pump Unit or Traveling Plunger? <b>Flowing</b>	Yes / <input checked="" type="radio"/> No
Producing Thru (Annulus / Tubing) <b>Annulus</b>	% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> <b>.6</b>
Vertical Depth(H) <b>1100'</b>	Pressure Taps <b>Flange</b>	(Meter Run) (Prover) Size <b>2"</b>	
Pressure Buildup: Shut In <b>2-3</b>	20 <b>10</b> at <b>3:30</b>	(AM) <input checked="" type="radio"/> (PM)	Taken <b>2-4</b>
			20 <b>10</b> at <b>3:45</b> (AM) <input type="radio"/> (PM)
Well on Line: Started <b>2-4</b>	20 <b>10</b> at <b>3:45</b>	(AM) <input checked="" type="radio"/> (PM)	Taken <b>2-5</b>
			20 <b>10</b> at <b>4:30</b> (AM) <input type="radio"/> (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in **72** 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>1</sub> ) or (P <sub>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						<b>16</b>	<b>30.4</b>				
Flow						<b>13</b>	<b>27.4</b>			<b>72</b>	<b>0</b>

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>0</sub> ) (F <sub>g</sub> ) Mctd	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 (Mctd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						<b>8</b>		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P <sub>e</sub> ) <sup>2</sup> =	(P <sub>w</sub> ) <sup>2</sup> =	P <sub>e</sub> = %	(P <sub>e</sub> - 14.4) + 14.4 =	(P <sub>e</sub> ) <sup>2</sup> =			
(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup>	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mctd)

Open Flow Mctd @ 14.65 psia Deliverability Mctd @ 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 16 day of December, 20 10

Witness (if any)

For Commission

*Cannell Oliver*  
For Company RECEIVED  
KANSAS CORPORATION COMMISSION

Checked by

JAN 26 2011

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.

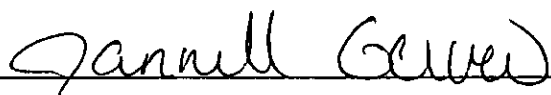
I hereby request a one-year exemption from open flow testing for the Yager 43-02 gas well on the grounds that said well:

(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: 12/16/10

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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JAN 26 2011

CONSERVATION DIVISION  
WICHITA, KS

W2061  
 Yarger 43-02  
 North Goodland  
 Goodland  
 None  
 February-10

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
2/1/2010	10	23		3	0	
2/2/2010	10	23		0	22	
2/3/2010	13	26		0	24	
2/4/2010	14	27		0	24	
2/5/2010	13	26		10	0	
2/6/2010	12	25		7	1.5	
2/7/2010	10	23		6	1	
2/8/2010	10	23		7	0	
2/9/2010	11	24		2	18	
2/10/2010	14	27		0	24	
2/11/2010	15	28		0	24	
2/12/2010	16	29		0	15	
2/13/2010	16	29		0	24	
2/14/2010	17	30		0	12	
2/15/2010	17	30		0	18	
2/16/2010	18	31		0	8	
2/17/2010	15	28		4	8	
2/18/2010	15	28		5	8 cd	
2/19/2010	14	27		5	6	
2/20/2010	13	26		7	5	
2/21/2010	12	25		10	0	
2/22/2010	10	23		11	0	
2/23/2010	9	22		10	1	
2/24/2010	9	22		8	0	
2/25/2010	9	22		7	1.5 nb, meth	
2/26/2010	10	23		5	5.5	
2/27/2010	9	22		9	1	
2/28/2010	9	22		8	0	
3/1/2010	0	0		0	0	
3/2/2010	0	0		0	0	
3/3/2010	0	0		0	0	

Total

124

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 WICHITA, KS

W2061  
 Yarger 43-02  
 North Goodland  
 Goodland  
 None  
 March-10

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
3/1/2010	8	21		8	0 bp
3/2/2010	8	21		9	0
3/3/2010	8	21		8	0
3/4/2010	8	21		7	0
3/5/2010	9	22		5	0
3/6/2010	8	21		9	0
3/7/2010	7	20		9	0
3/8/2010	6	19		8	0
3/9/2010	6	19		8	0
3/10/2010	6	19		8	0
3/11/2010	6	19		8	0 bp
3/12/2010	6	19		8	0
3/13/2010	6	19		8	0
3/14/2010	7	20		6	0
3/15/2010	6	19		7	0
3/16/2010	6	19		8	0
3/17/2010	6	19		8	0
3/18/2010	6	19		8	0 bp
3/19/2010	6	19		8	0
3/20/2010	6	19		8	0
3/21/2010	6	19		8	0
3/22/2010	5	18		8	0 cal
3/23/2010	6	19		7	0
3/24/2010	6	19		8	0
3/25/2010	6	19		7	0
3/26/2010	6	19		7	0
3/27/2010	6	19		7	0
3/28/2010	6	19		7	0
3/29/2010	6	19		7	0
3/30/2010	6	19		7	0
3/31/2010	7	20		6	0

Total

235

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