

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **AST**
 Deliverability

Test Date:
2/4/2010

API No. 15
15-181-20418-00 - 00

Company
Rosewood Resources

Lease
G. Inrg

Well Number
24-16

County Sherman Location **SESW** Section 16 TWP 7S RNG (E/W) 39W Acres Attributed 80

Field Goodland Reservoir Niobrara Gas Gathering Connection Branch Systems Inc.

Completion Date 3/24/2006 Plug Back Total Depth 1183' Packer Set at

Casing Size 2 7/8" Weight 6.5# Internal Diameter 2.441 Set at 1183.69' Perforations 1171' To 1008'

Tubing Size none Weight Internal Diameter Set at Perforations To

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

Producing Thru (Annulus / Tubing) Annulus % Carbon Dioxide % Nitrogen Gas Gravity - G_g .6

Vertical Depth(H) 1200' Pressure Taps Flange (Meter Run) (Prover) Size 2"

Pressure Buildup: Shut in 2-3 20 10 at 1:20 (AM) **(PM)** Taken 2-4 20 10 at 1:35 (AM) **(PM)**

Well on Line: Started 2-4 20 10 at 1:35 (AM) **(PM)** Taken 2-5 20 10 at 2:20 (AM) **(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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						16	30.4				
Flow						14	28.4			72	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						18		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_o)² = : (P_w)² = : P_g = % (P_g - 14.4) + 14.4 = : (P_o)² = 0.207 (P_o)² =

(P _o) ² - (P _w) ² or (P _o) ² - (P _g) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _o ² - P _w ² 2. P _o ² - P _g ² divided by: P _o ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_o^2 - P_w^2}{P_o^2 - P_w^2}$	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 16 day of December, 20 10

Witness (if any)

For Commission

[Signature]
For Company

Checked by

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JAN 26 2011

CONSERVATION DIVISION
WICHITA, KS

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 G. Ihrig 24-16 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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CONSERVATION DIVISION
WICHITA, KS

W2164
 G. Ihrig 24-16
 North Goodland
 Goodland
 None
 February-10

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
2/1/2010	10	23		7	0 cd
2/2/2010	10	23		1	22
2/3/2010	13	26		0	24
2/4/2010	14	27		0	24
2/5/2010	14	27		18	0
2/6/2010	12	25		13	1.5
2/7/2010	11	24		13	1
2/8/2010	11	24		13	0
2/9/2010	12	25		4	18
2/10/2010	16	29		0	24
2/11/2010	16	29		0	24
2/12/2010	17	30		0	15
2/13/2010	17	30		0	24
2/14/2010	18	31		0	12
2/15/2010	18	31		0	18
2/16/2010	18	31		0	8
2/17/2010	19	32		0	8
2/18/2010	16	29		12	8
2/19/2010	15	28		11	6
2/20/2010	14	27		14	5
2/21/2010	13	26		18	0
2/22/2010	11	24		18	0
2/23/2010	11	24		17	1
2/24/2010	10	23		16	0
2/25/2010	10	23		14	1.5
2/26/2010	11	24		9	5.5
2/27/2010	11	24		17	1
2/28/2010	10	23		16	0
3/1/2010	0	0		0	0
3/2/2010	0	0		0	0
3/3/2010	0	0		0	0

Total

231

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W2164
 G. Ihrig 24-16
 North Goodland
 Goodland
 None
 March-10

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

Total

476

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