

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow **ASI**

Deliverability

Test Date:
4/18/2012

API No. 15
181-20426-01-00

Company
Rosewood Resources, Inc.

Lease
G. Ihrig

Well Number
34-20H

County
Sherman

Location
SWSE/

Section
20

TWP
7S

RNG (E/W)
39W

Acres Attributed
80

Field
Goodland

Reservoir
Niobrara

Gas Gathering Connection
Branch Systems Inc.

Completion Date
9-22-2006

Plug Back Total Depth
2966.73'

Packer Set at

Casing Size
4 1/2"

Weight
10.5#

Internal Diameter
4.000

Set at
2966.73'

Perforations
2803'

To
2823'

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 No

Producing Thru (Annulus / Tubing)
Annulus

% Carbon Dioxide

% Nitrogen

Gas Gravity - G_s

Vertical Depth(H)
2499'

Pressure Taps
Flange

(Meter Run) (Prover) Size
2"

Pressure Buildup: Shut in 4-17 20 12 at 11:05 (AM) (PM) Taken 4-18 20 12 at 11:20 (AM) (PM)

Well on Line: Started 4-18 20 12 at 11:20 (AM) (PM) Taken 4-19 20 12 at 12:05 (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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						13	27.4				
Flow						7	21.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (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
						23		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_w)² = 0.207
(P_d)² = _____

(P _c) ² - (P _d) ² or (P _c) ² - (P _w) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: P _c 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 20 day of December, 2012

Witness (if any)

Dannell Brown
For Company

For Commission

Checked by

RECEIVED

Form G-2
(Rev. 7/03)

JAN 03 2013

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.

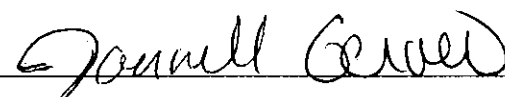
I hereby request a one-year exemption from open flow testing for the G. Ihrig 34-20H gas well on the grounds that said well:

(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: 12/20/12

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.

W2108
 G. Ihrig 34-20H
 North Goodland
 Goodland
 None
 April-12

RECEIVED
 JAN 03 2013
 KCC WICHITA

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
4/1/2012	7	20	23	0	
4/2/2012	7	20	23	0	
4/3/2012	7	20	24	0	
4/4/2012	6	19	23	0	
4/5/2012	6	19	23	0	
4/6/2012	6	19	23	0	
4/7/2012	6	19	23	0	
4/8/2012	6	19	23	0	
4/9/2012	7	20	23	0	
4/10/2012	7	20	23	0	
4/11/2012	6	19	23	0	
4/12/2012	6	19	23	0	
4/13/2012	7	20	23	0	
4/14/2012	7	20	23	0	
4/15/2012	7	20	23	0	
4/16/2012	7	20	23	0	
4/17/2012	6	19	23	0	0 shut in for state
4/18/2012	13	19	0	24	opened up
4/19/2012	7	20	23	0	
4/20/2012	7	20	23	0	
4/21/2012	7	20	23	0	
4/22/2012	7	20	23	0	
4/23/2012	7	20	23	0	
4/24/2012	7	20	23	0	
4/25/2012	7	20	23	0	
4/26/2012	7	20	23	0	
4/27/2012	11	24	16	9.5	
4/28/2012	8	21	23	0	
4/29/2012	7	20	23	0	
4/30/2012	7	20	23	0	
5/1/2012	0	0	0	0	

Total

661

W2108
 G. Ihrig 34-20H
 North Goodland
 Goodland
 None
 May-12

RECEIVED
 JAN 03 2013
 KCC WICHITA

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
5/1/2012	7	20	23	0		
5/2/2012	7	20	23	0		
5/3/2012	7	20	23	0		
5/4/2012	7	20	23	0		
5/5/2012	7	20	23	0		
5/6/2012	7	20	23	0		
5/7/2012	7	20	23	0		
5/8/2012	7	20	23	0		
5/9/2012	7	20	23	0		
5/10/2012	7	20	23	0		
5/11/2012	7	20	23	0		
5/12/2012	7	20	23	0		
5/13/2012	7	20	23	0		
5/14/2012	7	20	23	0		
5/15/2012	7	20	23	0		
5/16/2012	7	20	23	0		
5/17/2012	7	20	23	0		
5/18/2012	7	20	23	0		
5/19/2012	7	20	23	0		
5/20/2012	7	20	23	0		
5/21/2012	7	20	23	0		
5/22/2012	7	20	23	0	bp	
5/23/2012	7	20	23	0		
5/24/2012	7	20	23	0		
5/25/2012	7	20	23	0		
5/26/2012	7	20	23	0		
5/27/2012	7	20	23	0		
5/28/2012	8	21	22	2		
5/29/2012	8	21	22	2.5		
5/30/2012	7	20	23	0		
5/31/2012	7	20	23	0		

Total

711

W2108
 G. Ihrig 34-20H
 North Goodland
 Goodland
 None
 June-12

RECEIVED
 JAN 03 2013
 KCC WICHITA

DATE	Casing			HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF		
6/1/2012	7	20	23	0	
6/2/2012	6	19	23	0	
6/3/2012	6	19	23	0	
6/4/2012	6	19	23	0	
6/5/2012	6	19	23	0	
6/6/2012	6	19	23	0	
6/7/2012	6	19	23	0	
6/8/2012	6	19	23	0	
6/9/2012	6	19	23	0	
6/10/2012	18	31	21	20	
6/11/2012	18	31	21	14	
6/12/2012	18	31	21	7	
6/13/2012	18	31	21	3	
6/14/2012	18	31	21	1	
6/15/2012	7	20	23	2.5	
6/16/2012	7	20	23	0	
6/17/2012	7	20	23	0	
6/18/2012	7	20	23	0	
6/19/2012	7	20	23	2	
6/20/2012	7	20	23	2	
6/21/2012	7	20	23	0	
6/22/2012	7	20	23	0	
6/23/2012	7	20	23	0	
6/24/2012	7	20	23	0	
6/25/2012	7	20	23	0	
6/26/2012	7	20	23	0	
6/27/2012	7	20	23	0	
6/28/2012	7	20	23	0	
6/29/2012	7	20	23	0	
6/30/2012	7	20	23	0	
7/1/2012				0	

Total

680