

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **ASI**
Deliverability

Test Date:
5/3/2012

API No. 15
181-20567-0000

Company Rosewood Resources, Inc.		Lease lhrig, G		Well Number 32-20	
County Sherman	Location SWNE	Section 20	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 8/24/2010		Plug Back Total Depth 1211'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 1211'	Perforations 1056'	To 1088'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To

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Type Completion (Describe) Single (VERTICLE)	Type Fluid Production Dry Gas	Pump Unit or Traveling Plunger? Flowing	Yes <input type="radio"/> No <input checked="" type="radio"/>
Producing Thru (Annulus / Tubing) Annulus	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6
Vertical Depth(H) 1240'	Pressure Taps Flange	(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-2	20 12 at 10:20	(AM) (PM) Taken 5-3	20 12 at 11:30 (AM) (PM)
Well on Line: Started 5-3	20 12 at 11:30	(AM) (PM) Taken 5-4	20 12 at 1:30 (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						45	59.4				
Flow						33	47.4			24	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
						106		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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, 20 12

Witness (if any)

For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

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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 Ihrig, G 32-20 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.

W2727
 Ithrig 32-20
 North Goodland
 Goodland
 None
 May-12
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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2012	32	45	106	0	
5/2/2012	32	45	106	0	shut in for state
5/3/2012	45	58	0	24	opened up
5/4/2012	33	46	80	0	
5/5/2012	32	45	109	0	
5/6/2012	32	45	107	0	
5/7/2012	32	45	107	0	
5/8/2012	32	45	107	0	
5/9/2012	32	45	107	0	
5/10/2012	32	45	107	0	
5/11/2012	32	45	107	0	
5/12/2012	32	45	107	0	
5/13/2012	32	45	107	0	
5/14/2012	32	45	107	0	
5/15/2012	32	45	106	0	
5/16/2012	32	45	106	0	
5/17/2012	32	45	106	0	
5/18/2012	32	45	106	0	
5/19/2012	32	45	106	0	
5/20/2012	32	45	106	0	
5/21/2012	32	45	106	0	
5/22/2012	32	45	106	0	
5/23/2012	32	45	106	0	
5/24/2012	32	45	106	0	
5/25/2012	32	45	106	0	
5/26/2012	32	45	107	0	
5/27/2012	32	45	106	0	
5/28/2012	32	45	106	2	
5/29/2012	32	45	106	2.5	
5/30/2012	32	45	106	0	
5/31/2012	32	45	106	0	

Total

3167

W2727
 Ihrig 32-20
 North Goodland
 Goodland
 None
 June-12
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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2012	32	45		107	0
6/2/2012	32	45		106	0
6/3/2012	32	45		106	0
6/4/2012	32	45		106	0
6/5/2012	32	45		107	0
6/6/2012	32	45		106	0
6/7/2012	32	45		106	0
6/8/2012	32	45		107	0
6/9/2012	32	45		107	0
6/10/2012	35	48		81	20
6/11/2012	36	49		85	14
6/12/2012	33	46		102	7
6/13/2012	33	46		106	3
6/14/2012	34	47		106	1
6/15/2012	33	46		106	2.5
6/16/2012	33	46		106	0
6/17/2012	33	46		106	0
6/18/2012	33	46		106	0
6/19/2012	33	46		106	2
6/20/2012	33	46		105	2 bittercreek cal??????????????
6/21/2012	33	46		97	0 bp
6/22/2012	33	46		96	0
6/23/2012	33	46		109	0
6/24/2012	33	46		109	0
6/25/2012	33	46		109	0
6/26/2012	33	46		109	0
6/27/2012	33	46		109	0
6/28/2012	33	46		108	0
6/29/2012	33	46		109	0
6/30/2012	33	46		109	0
7/1/2012					0

Total

3137

W2727
 Ithrig 32-20
 North Goodland
 Goodland
 None
 July-12
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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
7/1/2012	33	46	109	0	
7/2/2012	33	46	108	0	
7/3/2012	33	46	107	2	
7/4/2012	33	46	107	0	
7/5/2012	33	46	101	7	
7/6/2012	33	46	97	1.5	
7/7/2012	33	46	107	0	
7/8/2012	33	46	107	0	
7/9/2012	33	46	108	0	
7/10/2012	33	46	108	0	
7/11/2012	33	46	108	0	
7/12/2012	33	46	108	0	
7/13/2012	33	46	108	0	
7/14/2012	33	46	108	0	
7/15/2012	33	46	108	0	
7/16/2012	33	46	108	0	
7/17/2012	33	46	108	0	
7/18/2012	33	46	108	0	
7/19/2012	33	46	108	0	
7/20/2012	33	46	108	0	
7/21/2012	33	46	108	0	
7/22/2012	33	46	108	0	
7/23/2012	33	46	108	0	
7/24/2012	33	46	107	0	
7/25/2012	33	46	108	0	
7/26/2012	33	46	108	0	
7/27/2012	32	45	107	0	
7/28/2012	33	46	107	0	
7/29/2012	33	46	107	0	
7/30/2012	33	46	107	0	
7/31/2012				0	

Total

3214