KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Open Flow ACT Test Date: 7/30/14 API No. 15 Deliverability Test Date: 7/30/14 181-20427-01-00 Company Rosewood Resources, Inc. G. Ihrig 21-20H County Location Section TWP RNG (E/W) Acres Acr	Attributed G ₀						
Deliverability Test Date: 7/30/14 181-20427-01-00 Company Rosewood Resources, Inc. County Location Sherman NENW 20 78 Reservoir Goodland Reservoir Goodland Niobrara Plug Back Total Depth 8/29/2006 Casing Size Weight 4.000 3266' Tupe Perforations To A-1/2" 10.5# 4.000 3266' Type Fluid Production NoNE Type Completion (Describe) Single (Horizonal) Producing Thru (Annulus / Tubing) Reservoir Gas Gathering Connection Branch Systems Inc. Packer Set at Perforations To NONE Type Fluid Production Pump Unit or Traveling Plunger? Yes No Flowing Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Carbon Dioxide Reservoir Gas Gathering Connection Branch Systems Inc. Packer Set at Perforations To No	Attributed G. G. (AM) (PM)						
Company Rosewood Resources, Inc. County Location Sherman NENW 20 7S 39W 80 Field Reservoir Goodland Niobrara Rosewood Rosewood Resources, Inc. Reservoir Goodland Roservoir Rosewood Roservoir Rosewood Roservoir Rosewood Roservoir Roservoir Rosewood Roservoir Roser	Attributed Go						
Rosewood Resources, Inc. G. Ihrig County Sherman NENW 20 7S 39W 80 Field Reservoir Goodland Niobrara Reservoir Branch Systems Inc. Completion Date 8/29/2006 Casing Size Veight 10.5# 4.000 3266' Type Completion (Describe) Type Fluid Production Section TWP RNG (E/W) Acres A 39W 80 Races A 39W 80 Fash Gas Gathering Connection Branch Systems Inc. Packer Set at Perforations To 41/2" 10.5# 4.000 3266' 3197' 3212' Tubing Size Weight Internal Diameter Set at Perforations To NONE Type Completion (Describe) Type Fluid Production Single (Horizonal) Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Carbon Dioxide % Nitrogen Gas Gravity - Carbon Dioxide	Attributed Go						
Sherman NENW 20 7S 39W 80 Field Reservoir Gas Gathering Connection Branch Systems Inc. Completion Date 8/29/2006 3266' Casing Size Weight Internal Diameter Set at Perforations To 4 1/2" 10.5# 4.000 3266' 3197' 3212' Tubing Size Weight Internal Diameter Set at Perforations To NONE Type Completion (Describe) Type Fluid Production Dry Gas Flowing Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - 0	G. (rover) Size						
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4 1/2" 10.5# 4.000 3266' 3197' 3212' Tubing Size Weight Internal Diameter Set at Perforations To NONE Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes No Single (Horizonal) Dry Gas Flowing Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Gas Gr	rover) Size						
NONE Type Completion (Describe) Single (Horizonal) Producing Thru (Annulus / Tubing) Type Fluid Production Dry Gas Flowing Pump Unit or Traveling Plunger? Yes No Flowing Flowing Gas Gravity - Completion (Pump Unit or Traveling Plunger) Flowing Gas Gravity - Completion (Pump Unit or Traveling Plunger) Flowing	rover) Size						
Single (Horizonal) Dry Gas Flowing Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - 0	rover) Size						
Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - 0	rover) Size						
Ailluids	(AM) (PM)						
Vertical Depth(H) Pressure Taps (Meter Run) (P	(AM) (PM)						
3287' Flange 2"							
	'AM) (PM)						
Well on Line: Started 7-30 20 14 at 3:15 (AM) (PM) Taken 7-31 20 14 at 4:05							
OBSERVED SURFACE DATA Duration of Shut-in 24	Hours						
Dunamia Size	id Produced Barrels)						
Property (inches) psig (Pm) Inches H ₂ 0 t t psig psia psig psia							
Shut-In 17 31.4	1						
Flow 6 20.4 24 0							
FLOW STREAM ATTRIBUTES							
Plate Circle one: Coefficient Meter or (F _b) (F _p) Mcfd Psia Press Gravity Flowing Temperature Factor Factor Fit: Press Gravity Flowing Temperature Factor Factor Factor Fit: Plate Circle one: Press Gravity Flowing Temperature Factor Factor Factor Factor Factor Fit: Plate Circle one: Press Gravity Flowing Temperature Factor Factor Factor Factor Factor Factor Fit: Page 19	Flowing Fluid Gravity G _m						
15	<u> </u>						
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_a)^2 = 0.2$	207						
$(P_c)^2 = $: $(P_w)^2 = $: $P_d = $ % $(P_c - 14.4) + 14.4 =:(P_d)^2 =:$							
(P _c) ² - (P _a) ² (P _c) ² - (P _w) ² (P _c) ² - P _a ² (P _c) ² - P _a ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² - P _c (P _c) ² (P _c) ² (P _c) ² - P _c (P _c) ² (pen Flow liverability s R x Antilog ((Mcfd)						
divided by: Pc2-Pw2 by: Cc2 w Standard Slope							
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 known	_						
the facts stated therein, and that said report is true and correct. Executed this the 22 day of December	20 14 .						
Witness (if any) KCC WICH: CENAUL Whaterle	¥—						
For Commission FEB 2 3 2015 Checked by							

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 theG. Ihrig 21-20H 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: 12/22/14
FEB 23 2015 RECEIVED Signature Canal Mattury 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.

W2269

G. Ihrig 21:20H

North Goodland

Goodland

None

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July-14

FloBoss

FloBoss						
	Casing			HR		REMARKS
DATE	PSI	STATIC	MCF	DO	WN	(Maximum length 110 characters)
7/1/2014	:	5 18	3	15	0	
7/2/2014	:	5 18	3	15	0	
7/3/2014	:	5 18	3	15	0	
7/4/2014	:	5 18	3	14	3	
7/5/2014	:	5 18	3	14	0	
7/6/2014	:	5 18	3	14	0	
7/7/2014	:	5 18	3	14	0	
7/8/2014	(5 19)	14	0	
7/9/2014	(5 19)	15	0	
7/10/2014	:	5 18	3	15	0	
7/11/2014	(5 19	•	15	0	
7/12/2014	(5 19)	15	0	
7/13/2014	(5 19)	15	0	
7/14/2014	(5 19)	15	0	
7/15/2014	(5 19)	15	3	
7/16/2014	(5 19	•	15	0	
7/17/2014	:	5 18	3	18	0	
7/18/2014	:	5 18	3	16	0	
7/19/2014	;	5 18	3	16	0	
7/20/2014	:	5 18	3	16	0	
7/21/2014	;	5 18	3	16	0	
7/22/2014	:	5 18	3	16	0	
7/23/2014	:	5 18	3	14	0	
7/24/2014	:	5 18	3	14	0	
7/25/2014	:	5 18	3	14	0	
7/26/2014		5 18	3	14	0	
7/27/2014	;	5 18	3	14	0	
7/28/2014	;	5 18	3	14	0	
7/29/2014	(5 19)	14	0	shut in for state
7/30/2014	1	7 30)	0	24	opened up
7/31/2014	(6 19)	15	0	

Total 446

KCC WICHITA FEB 23 2015

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W2269

G. Ihrig 21-20H

North Goodland

Goodland

None

August-14

FloBoss

	Casing	_		HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
8/1/2014		6	19	15	0	
8/2/2014		6	19	15	0	
8/3/2014		6	19	15	0	
8/4/2014		6	19	15	0	
8/5/2014		6	19	15	0	
8/6/2014		6	19	15	0	
8/7/2014		6	19	16	0	
8/8/2014		6	19	13	3	
8/9/2014		6	19	15	0	
8/10/2014		6	19	15	0	
8/11/2014		6	19	15	0	
8/12/2014		6	19	15	0	
8/13/2014		6	19	15	0	
8/14/2014		6	19	15	0	
8/15/2014		6	19	15	0	
8/16/2014		6	19	15	0	
8/17/2014		6	19	15	0	
8/18/2014		5	18	15	0	
8/19/2014		6	19	15	0	
8/20/2014		6	19	15	2	
8/21/2014		6	19	15	0	
8/22/2014		6	19	15	0	
8/23/2014		6	19	16	0	
8/24/2014		6	19	16	0	
8/25/2014		6	19	16	0	
8/26/2014		5	18	16	0	
8/27/2014		5	18	16	0	
8/28/2014		5	18	16	0	
8/29/2014		5	18	16	0	
8/30/2014		5	18	16	0	
8/31/2014		5	18	16	0	

Total 473

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Galhrig 21-20H

North Goodland

Goodland

None

September-14

FloBoss

	Casing			HRS		REMARKS	
DATE	PSI	STATIC	MCF	DC)WN	(Maximum length 110 characters)	
9/1/2014		5	18	16	0		
9/2/2014		5	18	16	0		
9/3/2014		5	18	16	0		
9/4/2014		5	18	16	0		
9/5/2014		5	18	16	0		
9/6/2014		5	18	16	0		
9/7/2014		5	18	16	0		
9/8/2014		5	18	16	0		
9/9/2014		6	19	16	0		
9/10/2014		6	19	16	0		
9/11/2014		5	18	16	0		
9/12/2014		5	18	16	0		
9/13/2014		5	18	16	0		
9/14/2014		5	18	16	0		
9/15/2014		5	18	16	0.5		
9/16/2014		6	19	16	0		
9/17/2014		6	19	16	0		
9/18/2014		6	19	16	0.5		
9/19/2014		6	19	16	0		
9/20/2014		5	18	16	0		
9/21/2014		5	18	16	0		
9/22/2014		5	18	16	0		
9/23/2014		5	18	16	0		
9/24/2014		6	19	16	0		
9/25/2014		6	19	16	0		
9/26/2014		6	19	16	0		
9/27/2014		6	19	16	0		
9/28/2014		6	19	16	0		
9/29/2014		6	19	16	0		
9/30/2014		6	19	16	0		
10/1/2014					0		

Total 480

KCC WICHITA FEB 23 2015 RECEIVED