

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **SI**
 Deliverability

Test Date:
5/12/2008

API No. 15
023-20665-0080

Company Rosewood Resources, Inc.		Lease Northrup		Well Number 43-33	
County Cheyenne	Location NESE	Section 33	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 4-1-2006		Plug Back Total Depth 1766'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1767.06'	Perforations 1616'	To 1642'
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 / <input checked="" type="checkbox"/> No flowing	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1642'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5-12 20 08 at 2:30 (AM) <input checked="" type="checkbox"/> (PM)		Taken 5-13 20 08 at 2:45 (AM) <input checked="" type="checkbox"/> (PM)			
Well on Line: Started 5-13 20 08 at 2:45 (AM) <input checked="" type="checkbox"/> (PM)		Taken 5-14 20 08 at 3:00 (AM) <input checked="" type="checkbox"/> (PM)			

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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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						80	94.4				
Flow						150	164.4				

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _c) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						51		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _c) ² - (P _a) ² or (P _c) ² - (P _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _o ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $\left[\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]$	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 10 day of December, 20 08

Witness (if any)

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KANSAS CORPORATION COMMISSION *Wagner* *Grisham*
For Company

For Commission

Checked by

JAN 29 2009
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 Northrup 43-33 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

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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: 12/10/08

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WICHITA, KS

Signature: Wayne Maben

Title: Production Foreman

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.

W2059
 Northrup 43-33
 West St. Francis
 St. Francis
 None
 May-08

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
5/1/2008			81	50	6	12	0	17	
5/2/2008			80	50	6	12	0	18	
5/3/2008			80	50	6	12	0	16	
5/4/2008			80	50	6	12	0	17	
5/5/2008			80	50	6	12	0	17	
5/6/2008			80	50	6	12	0	18	
5/7/2008			82	50	6	12	0	17	
5/8/2008			82	50	6	12	0	17	bucket test 8 min
5/9/2008			82	50	6	12	0	17	
5/10/2008			82	49	6	12	0	16	
5/11/2008			81	49	6	12	0	15	
5/12/2008			80	49	6	12	0	16	
5/13/2008		80	79	49	0	0	0	17	shut in for test
5/14/2008		150	69	7	6	12	0	0	open
5/15/2008			88	59	6	12	0	17	
5/16/2008			90	65	6	12	0	15	
5/17/2008			84	52	6	12	0	16	
5/18/2008			87	63	6	12	0	17	
5/19/2008			87	62	6	12	0	16	
5/20/2008			86	61	6	12	0	15	
5/21/2008			86	60	6	12	0	16	
5/22/2008			86	58	6	12	0	17	bucket test 8 min
5/23/2008			84	51	6	12	0	16	
5/24/2008			84	51	6	12	0	17	
5/25/2008			80	41	6	12	0	0	bp belts broke replaced
5/26/2008			80	45	6	12	0	16	
5/27/2008			83	49	6	12	0	17	
5/28/2008			83	49	6	12	0	16	
5/29/2008			85	51	6	12	0	17	bucket test 8 min
5/30/2008			86	52	6	12	0	18	
5/31/2008			85	51	6	12	0	17	

Total

1573

481

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W2059
 Northrup 43-33
 West St. Francis
 St. Francis
 None
 June-08

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)		
	PSI	PSI							
6/1/2008			85	52	6	12	0	17	
6/2/2008			85	52	6	12	0	18	
6/3/2008			85	52	6	12	0	17	
6/4/2008			84	52	6	12	0	17	bucket test 8 min
6/5/2008			84	52	6	12	0	16	
6/6/2008			83	52	6	12	0	18	
6/7/2008			86	52	6	12	0	17	
6/8/2008			84	52	6	12	0	16	
6/9/2008			83	51	6	12	0	17	
6/10/2008			84	51	6	12	0	18	
6/11/2008			87	51	6	12	0	17	bucket test 8 min
6/12/2008			86	51	6	12	0	16	
6/13/2008			87	51	6	12	0	18	
6/14/2008			87	51	6	12	0	18	
6/15/2008			89	51	6	12	0	16	
6/16/2008			85	51	6	12	0	18	
6/17/2008			85	51	6	12	0	16	
6/18/2008			84	51	6	12	0	17	
6/19/2008			83	51	6	12	0	17	bucket test 8 min
6/20/2008			84	51	6	12	0	18	
6/21/2008			83	50	6	12	0	17	
6/22/2008			83	50	6	12	0	16	
6/23/2008			85	50	6	12	0	17	
6/24/2008			84	50	6	12	0	18	
6/25/2008			83	50	6	12	0	19	
6/26/2008			83	50	6	12	0	15	
6/27/2008			83	50	6	12	0	16	
6/28/2008			83	50	6	12	0	15	
6/29/2008			83	50	6	12	0	15	
6/30/2008			83	50	6	12	0	16	
7/1/2008							0		

Total

1528

506

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W2059
 Northrup 43-33
 West St. Francis
 St. Francis
 None
 July-08

DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2008			83	50	6	12	0	15
7/2/2008			87	50	6	12	0	16
7/3/2008			84	47	6	12	0	17
7/4/2008			84	47	6	12	0	16
7/5/2008			88	47	6	12	0	15
7/6/2008			91	44	6	12	0	16
7/7/2008			90	44	6	12	0	17
7/8/2008			88	45	6	12	0	18
7/9/2008			85	48	6	12	0	17 bucket test 8 min
7/10/2008			88	45	6	12	0	18
7/11/2008			90	44	6	12	0	19
7/12/2008			87	44	6	12	0	16
7/13/2008			86	47	6	12	0	17
7/14/2008			112	46	6	12	11	14 PU off HFP
7/15/2008			125	15	0	0	0	0
7/16/2008			106	46	0	0	0	0 PU off HFP
7/17/2008			88	40	0	0	0	0 pu off hfp greased
7/18/2008			119	32	0	0	0	0 pu off hfp
7/19/2008			70	29	6	12	3	0 started pumping unit
7/20/2008			77	32	6	12	0	17
7/21/2008			82	37	6	12	0	18
7/22/2008			86	37	6	12	0	17 bucket test 5 min
7/23/2008			87	39	6	12	0	18
7/24/2008			91	40	0	0	4	16 pump off hfp
7/25/2008			90	34	0	0	0	0
7/26/2008			84	37	0	0	0	0
7/27/2008			67	30	6	12	0	16 restart lpump
7/28/2008			72	32	6	12	0	14
7/29/2008			85	37	6	12	0	15
7/30/2008			143	39	0	0	0	16 pump off hfp
7/31/2008			86	28	6	12	0	0 restart lpump

Total

1232

378

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