

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **SI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
8/12/2009

API No. 15
023-20554-0000

Company Rosewood Resources, Inc.		Lease Northrup		Well Number 2-33	
County Cheyenne	Location SWSE	Section 33	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-15-2004		Plug Back Total Depth 1815'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1820'	Perforations 1600'	To 1634'
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? <input checked="" type="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1634'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-11 20 09 at 11:40		(AM) (PM) Taken 8-12 20 09 at 11:50		(AM) (PM)	
Well on Line: Started 8-12 20 09 at 11:50		(AM) (PM) Taken 8-13 20 09 at 1:40		(AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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						50	64.4				
Flow						200	214.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (F _a) 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
						16		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² = _____

(P _c) ² = _____	(P _w) ² = _____	P _d = _____ %	(P _c - 14.4) + 14.4 = _____				
(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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- 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 November, 2009.

Witness (if any)

For Commission

Tom W. Reelf
For Company
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Checked by

NOV 30 2009

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.

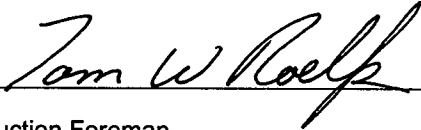
I hereby request a one-year exemption from open flow testing for the Northrup 2-33 gas well on the grounds that said well:

(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

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: 11/20/09

Signature: 
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.

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CONSERVATION DIVISION

W363
 Northrup 2-33
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 August-09

DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2009			56	20	5.5	24	0	21
8/2/2009			56	20	5.5	24	0	22
8/3/2009			76	20	5.5	24	0	21
8/4/2009			76	20	5.5	24	0	22
8/5/2009			79	20	5.5	24	0	23
8/6/2009			79	20	5.5	24	0	22
8/7/2009			75	20	5.5	24	0	21
8/8/2009			76	20	5.5	24	0	22
8/9/2009			75	20	5.5	24	0	21
8/10/2009			81	20	5.5	24	0	0 PU OFF
8/11/2009			72	19	5.5	24	0	0
8/12/2009		50	68	17	5.5	24	0	0 shut in for test
8/13/2009		200	72	4	5.5	24	0	0 open
8/14/2009			78	30	5.5	24	0	22
8/15/2009			59	27	5.5	24	0	21
8/16/2009			56	27	0	0	0	22 PU OFF
8/17/2009			140	24	0	0	0	0
8/18/2009			141	24	0	0	0	0
8/19/2009			141	21	0	0	0	0
8/20/2009			51	21	0	0	0	0 electric problem
8/21/2009			68	20	0	0	0	0
8/22/2009			50	19	0	0	4	0
8/23/2009			87	18	0	0	0	0
8/24/2009			94	18	0	0	0	0
8/25/2009			90	10	0	0	4	0
8/26/2009			52	17	0	0	0	0
8/27/2009			49	16	0	0	0	0
8/28/2009			50	16	0	0	0	0
8/29/2009			141	16	0	0	0	0
8/30/2009			80	15	0	0	3	0
8/31/2009			78	16	0	0	0	0

Total

595

260

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CONSERVATION DIVISION
 WICHITA, KS

W363
 Northrup 2-33
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 September-09

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
9/1/2009		0	78	15	0	0	0	0	pump electric proble,
9/2/2009		0	76	14	0	0	0	0	
9/3/2009		0	52	15	0	0	0	0	
9/4/2009		0	92	14	0	0	6	0	
9/5/2009		0	79	14	0	0	0	0	
9/6/2009		0	76	14	0	0	0	0	
9/7/2009		0	75	13	0	0	0	0	
9/8/2009		0	75	13	0	0	0	0	
9/9/2009		0	53	13	0	0	0	0	
9/10/2009		0	51	13	0	0	0	0	
9/11/2009		0	48	13	0	0	0	0	
9/12/2009		0	47	13	0	0	0	0	replaced electric box started
9/13/2009		0	58	14	0	0	1.5	0	pump off
9/14/2009		0	74	14	0	0	0	0	
9/15/2009		0	74	14	0	0	0	0	
9/16/2009		0	56	14	0	0	0	0	
9/17/2009		0	47	14	0	0	0	0	
9/18/2009		0	47	14	0	0	0	0	
9/19/2009		0	57	14	0	0	0	0	
9/20/2009		0	73	14	0	0	0	0	
9/21/2009		0	74	14	0	0	0	0	
9/22/2009		0	72	14	0	0	0	0	
9/23/2009		0	50	14	0	0	0	0	
9/24/2009		0	63	13	0	0	0	0	
9/25/2009		0	97	12	0	0	6	0	
9/26/2009		0	121	13	0	0	0	0	
9/27/2009		0	102	12	0	0	0	0	
9/28/2009		0	94	12	0	0	0	0	
9/29/2009		0	74	12	0	0	0	0	
9/30/2009		0	95	11	0	0	8	0	
10/1/2009		0	0	0	0	0	0	0	

Total

403

0

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CONSERVATION DIVISION
 WICHITA, KS

W363
 Northrup 2-33
 West St. Francis
 St. Francis
 Pumping Unit/Elec
 October-09

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs
10/1/2009		0	121	12	0	0	0	0
10/2/2009		0	96	12	0	0	0	0
10/3/2009		0	84	12	0	0	0	0
10/4/2009		0	80	11	0	0	1	0
10/5/2009		0	64	11	0	0	0	0
10/6/2009		0	78	11	0	0	0	0
10/7/2009		0	66	11	0	0	0	0
10/8/2009		0	87	11	0	0	0	0
10/9/2009		0	91	9	0	0	0	0
10/10/2009		0	84	11	0	0	0	0
10/11/2009		0	79	11	0	0	0	0
10/12/2009		0	74	11	0	0	0	0
10/13/2009		0	75	11	0	0	0	0
10/14/2009		0	76	11	0	0	0	0
10/15/2009		0	83	10	0	0	0	0
10/16/2009		0	98	11	0	0	2.5	0
10/17/2009		0	63	11	0	0	0	0
10/18/2009		0	61	10	0	0	0	0
10/19/2009		0	67	10	0	0	0	0
10/20/2009		0	71	10	0	0	0	0
10/21/2009		0	62	10	0	0	0	0
10/22/2009		0	61	10	0	0	0	0
10/23/2009		0	61	10	0	0	0	0
10/24/2009		0	62	10	0	0	0	0
10/25/2009		0	66	10	0	0	0	0
10/26/2009		0	60	10	0	0	0	0
10/27/2009		0	59	10	0	0	0	0
10/28/2009		0	63	10	0	0	0	0
10/29/2009		0	63	10	0	0	0	0
10/30/2009		0	66	10	0	0	0	0
10/31/2009		0	66	10	0	0	0	0

Total

327

0

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 WICHITA, KS