

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/9/2015

API No. 15
023-20611-0000

Company Rosewood Resources, Inc.		Lease Grace		Well Number 1-24	
County Cheyenne	Location NW SE/4	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 5/4/2005		Plug Back Total Depth 1507'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1507'	Perforations 1302'	To 1334'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Sine (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? <input checked="" type="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1334'		Pressure Taps Flange		Gas Gravity - G _g .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-9		20 15 at 9:35		(AM) (PM) Taken 7-10	
Well on Line: Started 7-10		20 15 at 9:50		(AM) (PM) Taken 7-11	
		20 15 at 9:50		(AM) (PM) Taken 7-11	
		20 15 at 10:35		(AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	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						91	105.4				
Flow						46	60.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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
						29		

(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 18 day of December, 20 15.

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Small Montary
For Company

Witness (if any)

For Commission

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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 the Grace 1-24 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: 12/18/15

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Signature: Jannell Martin

Title: Production Assistant

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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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None

July-15

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DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2015	49	62	29	6.5	2	0	3	
7/2/2015	48	61	29	6.5	2	0	3	
7/3/2015	48	61	29	6.5	2	0	3	
7/4/2015	48	61	29	6.5	2	0	3	
7/5/2015	48	61	29	6.5	2	0	3	
7/6/2015	48	61	28	6.5	2	2	3	
7/7/2015	48	61	29	6.5	2	0	3	
7/8/2015	48	61	29	6.5	2	16	3	turn off p u
7/9/2015	47	60	0	6.5	2	24	0	
7/10/2015	91	104	0	6.5	2	14	0	
7/11/2015	90	103	4	6.5	2	0	0	
7/12/2015	74	87	25	6.5	2	0	0	
7/13/2015	56	68	35	6.5	2	0	0	restarted pu
7/14/2015	49	62	32	6.5	2	0	3	
7/15/2015	50	63	32	6.5	2	0	3	
7/16/2015	48	61	30	6.5	2	0	3	
7/17/2015	48	61	30	6.5	2	0	3	
7/18/2015	47	60	30	6.5	2	0	3	
7/19/2015	47	60	30	6.5	2	0	3	
7/20/2015	47	60	30	6.5	2	0	3	
7/21/2015	51	64	25	6.5	2	2	3	
7/22/2015	47	60	30	6.5	2	0	3	
7/23/2015	48	61	30	6.5	2	0	3	
7/24/2015	47	60	30	6.5	2	0	3	
7/25/2015	47	60	30	6.5	2	0	3	
7/26/2015	47	60	30	6.5	2	0	3	
7/27/2015	46	59	29	6.5	2	0	3	
7/28/2015	46	59	29	6.5	2	0	3	
7/29/2015	46	59	29	6.5	2	0	3	
7/30/2015	46	59	29	6.5	2	0	3	
7/31/2015	46	59	29	6.5	2	0	3	

Total

829

78

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Grace

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None

August-15

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DATE	Casing			SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF					
8/1/2015	47	60	29	6.5	2	0	3	
8/2/2015	48	61	28	6.5	2	0	3	
8/3/2015	46	59	28	6.5	2	0	3	
8/4/2015	46	59	28	6.5	2	0	3	
8/5/2015	46	59	28	6.5	2	0	3	
8/6/2015	46	59	28	6.5	2	0	3	
8/7/2015	46	59	28	6.5	2	0	3	
8/8/2015	47	60	28	6.5	2	0	3	
8/9/2015	48	61	28	6.5	2	0	3	
8/10/2015	50	63	26	6.5	2	0	3	
8/11/2015	51	64	26	6.5	2	0	3	
8/12/2015	51	64	26	6.5	2	0	3	
8/13/2015	52	65	26	6.5	2	0	3	
8/14/2015	52	65	26	6.5	2	0	3	
8/15/2015	52	65	26	6.5	2	0	3	
8/16/2015	53	66	26	6.5	2	0	3	
8/17/2015	53	66	26	6.5	2	0	3	
8/18/2015	52	65	26	6.5	2	0	3	
8/19/2015	52	65	26	6.5	2	0	3	
8/20/2015	52	65	26	6.5	0	0	0	0 found pu switched off, left off
8/21/2015	52	65	26	6.5	0	0	0	
8/22/2015	52	65	26	6.5	0	0	0	
8/23/2015	52	65	26	6.5	0	0	0	
8/24/2015	52	65	26	6.5	0	0	0	
8/25/2015	55	68	25	6.5	0	0	0	
8/26/2015	55	68	25	6.5	0	0	0	
8/27/2015	55	68	25	6.5	0	0	0	
8/28/2015	55	68	25	6.5	0	0	0	
8/29/2015	55	68	25	6.5	0	0	0	
8/30/2015	55	68	25	6.5	0	4	0	
8/31/2015	55	68	25	6.5	0		0	

Total

818

57

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Grace 24

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None

September-15

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DATE	Casing			SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF				
9/1/2015	47	60	20	6.5	0	0	pu off, wasn't bringing water
9/2/2015	47	60	26	6.5	0	0	
9/3/2015	50	63	25	6.5	0	0	
9/4/2015	59	72	24	6.5	0	0	
9/5/2015	59	72	24	6.5	0	0	
9/6/2015	59	72	24	6.5	0	0	
9/7/2015	57	70	24	6.5	0	0	
9/8/2015	57	70	24	6.5	0	0	
9/9/2015	49	62	24	6.5	0	0	
9/10/2015	49	62	24	6.5	0	0	
9/11/2015	49	62	24	6.5	0	0	
9/12/2015	49	62	24	6.5	0	0	
9/13/2015	49	62	24	6.5	0	0	
9/14/2015	49	62	24	6.5	0	0	
9/15/2015	49	62	24	6.5	0	0	
9/16/2015	49	62	24	6.5	0	0	
9/17/2015	49	62	24	6.5	0	0	
9/18/2015	49	62	24	6.5	0	0	
9/19/2015	49	62	24	6.5	0	0	
9/20/2015	49	62	24	6.5	0	0	
9/21/2015	49	62	24	6.5	0	0	
9/22/2015	49	62	24	6.5	0	0	
9/23/2015	49	62	24	6.5	0	0	
9/24/2015	49	62	24	6.5	0	0	
9/25/2015	49	62	24	6.5	0	0	
9/26/2015	49	62	24	6.5	0	0	
9/27/2015	49	62	24	6.5	0	0	
9/28/2015	49	62	24	6.5	0	0	
9/29/2015	49	62	24	6.5	0	0	
9/30/2015	49	62	24	6.5	0	0	
10/1/2015		13		6.5	0		

Total

719

0

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