

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow **OSI**
 Deliverability

Test Date:
7/23/2013

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) Sinle (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		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-22 20 13 at 9:35 (AM)(PM) Taken 7-23 20 13 at 9:50 (AM)(PM)					
Well on Line: Started 7-23 20 13 at 9:50 (AM)(PM) Taken 7-24 20 13 at 10:35 (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 _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						109	123.4				
Flow						54	68.4			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
						32		

(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" ----- 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 21 day of November, 20 13.

KANSAS CORPORATION COMMISSION

Witness (if any) **DEC 26 2013** For Company
 For Commission CONSERVATION DIVISION 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: 11/21/13

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Signature: _____

Jannell Martiney

DEC 26 2013

Title: Production Assistant

CONSERVATION DIVISION
WICHITA, KS

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.

W348
 Grace 1-24
 St. Francis
 St. Francis
 None
 July-13
 FloBoss

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLEDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2013	55	68	41	6.4	24	34	
7/2/2013	58	71	41	6.4	24	33	
7/3/2013	56	69	39	6.4	24	32	
7/4/2013	58	71	39	6.4	24	34	
7/5/2013	58	71	40	6.4	24	31	treated well
7/6/2013	58	71	38	6.4	24	29	
7/7/2013	69	82	34	6.4	12	15	pu off no water
7/8/2013	67	80	33	6.4	0	0	
7/9/2013	65	78	33	6.4	1	0	restart pu - put on auto
7/10/2013	62	75	35	6.4	2		
7/11/2013	66	79	35	6.4	2		
7/12/2013	72	85	31	6.4	1		shut pumping unit off hfp
7/13/2013	75	88	28	6.4	0	2.5	0
7/14/2013	79	92	31	6.4	0	0	0
7/15/2013	58	71	35	6.4	1	2	started pumping unit
7/16/2013	54	67	34	6.4	2	4	
7/17/2013	52	65	34	6.4	2	3	4.5 min bt greased
7/18/2013	81	94	31	6.4	1	2	pu off hfp
7/19/2013	73	86	30	6.4	0	0	
7/20/2013	74	87	30	6.4	0	0	
7/21/2013	75	88	30	6.4	0	0	
7/22/2013	73	83	30	6.4	0	0	0 si for state test - cp 73
7/23/2013	109	82	0	6.4	1	24	2 restart pu - reopened cp 109
7/24/2013	76	89	39	6.4	2	4	
7/25/2013	79	92	33	6.4	1	2	pu off hfp
7/26/2013	67	80	35	6.4	1	2	restarted, didn't wait for water
7/27/2013	56	69	35	6.4	2	3	
7/28/2013	58	71	33	6.4	2	2	
7/29/2013	56	69	35	6.4	2	3	
7/30/2013	83	96	35	6.4	1	3.5	1 pu off hfp
7/31/2013	101	114	17	6.4	0	5.5	0

Total

1014

238

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CONSERVATION DIVISION
 WICHITA, KS

W348

Grace 1-24

St. Francis

St. Francis

None

August-13

FloBoss

DATE	Casing			HRS CYCLEDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF	SPM			
8/1/2013	78	91	28	6.5		
8/2/2013	78	91	33	6.5		
8/3/2013	73	86	34	6.5		
8/4/2013	74	87	34	6.5		
8/5/2013	65	78	31	6.5		
8/6/2013	56	69	31	6.5		
8/7/2013	51	64	31	6.5	1	1 restart pu
8/8/2013	55	68	31	6.5	2	3
8/9/2013	58	71	31	6.5	2	2
8/10/2013	56	69	32	6.5	2	1
8/11/2013	54	67	33	6.5	2	2
8/12/2013	54	67	32	6.5	2	2
8/13/2013	54	67	32	6.5	2	3
8/14/2013	54	67	32	6.5	2	3 4.75 min bt greased
8/15/2013	56	69	33	6.5	2	0.5 4
8/16/2013	65	78	31	6.5	2	3
8/17/2013	65	78	32	6.5	2	5
8/18/2013	66	79	31	6.5	2	7
8/19/2013	67	80	31	6.5	1	1.5 2
8/20/2013	89	102	27	6.5	0	1 0
8/21/2013	86	99	24	6.5	0	0
8/22/2013	89	102	27	6.5	0	5 0
8/23/2013	74	87	27	6.5	0	0
8/24/2013	83	96	34	6.5	0	1 0
8/25/2013	88	101	24	6.5	0	1 0
8/26/2013	56	69	30	6.5	0	0
8/27/2013	52	65	30	6.5	1	2 restart pu, didn't wait for water
8/28/2013	51	64	30	6.5	2	4
8/29/2013	90	103	30	6.5	1	1 2 pu off hfp
8/30/2013	86	99	21	6.5	0	0
8/31/2013	87	100	27	6.5	0	0

Total

934

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WICHITA, KS

W348
 Grace 1-24
 St. Francis
 St. Francis
 None
 September-13
 FloBoss

DATE	Casing PSI	STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2013	105	118	23		1	
9/2/2013	92	105	17			
9/3/2013	109	122	24		22	
9/4/2013	112	125	1		10	
9/5/2013	113	126	1			
9/6/2013	90	103	1		1	
9/7/2013	94	107	26			
9/8/2013	92	105	27			
9/9/2013	94	107	26			
9/10/2013	98	111	20		2	
9/11/2013	110	123	19			
9/12/2013	114	127	6		18	
9/13/2013	89	102	21		4	
9/14/2013	74	87	38		2	
9/15/2013	81	94	31			
9/16/2013	62	75	34			
9/17/2013	55	68	31			
9/18/2013	53	66	31			
9/19/2013	49	62	30	6.5	1	2 restart pu
9/20/2013	36	49	30	6.5	2	3 treated
9/21/2013	41	54	27	6.5	1	2
9/22/2013	63	76	30	6.5	2	3
9/23/2013	65	78	28	6.5	2	4
9/24/2013	89	102	28	6.5	1	4 2 pu off hfp
9/25/2013	86	99	20	6.5	0	0
9/26/2013	73	86	30	6.5	0	0
9/27/2013	54	67	29	6.5	0	0
9/28/2013	57	70	28	6.5	0	0
9/29/2013	56	69	28	6.5	0	0
9/30/2013	63	76	28	6.5	0	0
10/1/2013						

Total

713

16

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