

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/9/2015

API No. 15
023-20677-0000

Company Rosewood Resources, Inc.		Lease Stuart		Well Number 33-30	
County Cheyenne	Location SWNE	Section 30	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/14/2006		Plug Back Total Depth 1312'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1312'	Perforations 1168'	To 1204'
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) 1204'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7-9		20 15 at 10:00		<input checked="" type="checkbox"/> (AM) (PM) Taken 7-10	
Well on Line: Started 7-10		20 15 at 10:15		<input checked="" type="checkbox"/> (AM) (PM) Taken 7-11	
		20 15 at 10:15		<input checked="" type="checkbox"/> (AM) (PM) Taken 7-11	
		20 15 at 11:00		<input checked="" type="checkbox"/> (AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						173	187.4				
Flow						51	65.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (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 _{tt}	Deviation Factor F _{pV}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						2		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_c)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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- 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.

Witness (if any)

KCC WICHITA

Janell Martney
For Company

For Commission

APR 07 2016

Checked by

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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 Stuart 33-30 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

KCC WICHITA Signature: *Samuel Mantey*
APR 07 2016 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

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2015	56	70	2	0	0	0	0	
7/2/2015	57	69	2	0	0	0	0	
7/3/2015	57	69	2	0	0	0	0	
7/4/2015	57	69	2	0	0	0	0	
7/5/2015	57	69	2	0	0	0	0	
7/6/2015	55	76	2	0	0	2	0	
7/7/2015	55	69	2	0	0	0	0	
7/8/2015	55	68	2	0	0	16	0	
7/9/2015	55	160	0	0	0	24	0	
7/10/2015	173	187	0	0	0	14	0	
7/11/2015	126	147	3	0	0	0	0	
7/12/2015	103	111	3	0	0	0	0	
7/13/2015	73	97	2	0	0	0	0	
7/14/2015	68	82	2	0	0	0	0	
7/15/2015	68	79	2	0	0	0	0	
7/16/2015	57	79	2	0	0	0	0	
7/17/2015	57	79	2	0	0	0	0	
7/18/2015	66	78	2	0	0	0	0	
7/19/2015	66	78	2	0	0	0	0	
7/20/2015	66	78	2	0	0	0	0	
7/21/2015	70	90	2	0	0	2	0	
7/22/2015	66	80	2	0	0	0	0	
7/23/2015	66	79	2	0	0	0	0	
7/24/2015	65	78	2	0	0	0	0	
7/25/2015	65	78	2	0	0	0	0	
7/26/2015	65	78	2	0	0	0	0	
7/27/2015	65	78	2	0	0	0	0	
7/28/2015	65	77	2	0	0	0	0	0 19 scf
7/29/2015	65	78	2	0	0	0	0	0 12 scf
7/30/2015	65	78	2	0	0	0	0	0 7 scf
7/31/2015	65	78	2	0	0	0	0	

Total

60

0

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DATE	Casing	PSI	STATIC	MCF	SPM	CYCLE	DOWN	HRS	Water	BLS	REMARKS
8/1/2015	47	47	78	2	0	0	0	0	0	0	
8/2/2015	47	47	79	2	0	0	0	0	0	0	
8/3/2015	48	47	79	2	0	0	0	0	0	0	
8/4/2015	47	47	78	2	0	0	0	0	0	0	
8/5/2015	47	47	79	2	0	0	0	0	0	0	
8/6/2015	47	47	83	2	0	0	0	0	0	0	
8/7/2015	47	47	83	2	0	0	0	0	0	0	
8/8/2015	48	47	82	2	0	0	0	0	0	0	
8/9/2015	49	47	84	2	0	0	0	0	0	0	
8/10/2015	51	47	84	2	0	0	0	0	0	0	
8/11/2015	51	47	84	2	0	0	0	0	0	0	
8/12/2015	51	47	84	2	0	0	0	0	0	0	
8/13/2015	51	47	86	2	0	0	0	0	0	0	
8/14/2015	51	47	82	2	0	0	0	0	0	0	
8/15/2015	51	47	82	2	0	0	0	0	0	0	
8/16/2015	51	47	82	2	0	0	0	0	0	0	
8/17/2015	51	47	81	2	0	0	0	0	0	0	
8/18/2015	51	47	81	2	0	0	0	0	0	0	
8/19/2015	51	47	82	1	0	0	0	0	0	0	
8/20/2015	51	47	81	2	0	0	0	0	0	0	
8/21/2015	51	47	80	2	0	0	0	0	0	0	
8/22/2015	51	47	79	2	0	0	0	0	0	0	
8/23/2015	51	47	79	2	0	0	0	0	0	0	
8/24/2015	67	47	80	2	0	0	0	0	0	0	
8/25/2015	67	47	80	2	0	0	0	0	0	0	
8/26/2015	67	47	80	2	0	0	0	0	0	0	
8/27/2015	67	47	78	2	0	0	0	0	0	0	
8/28/2015	67	47	77	2	0	0	0	0	0	0	
8/29/2015	67	47	79	2	0	0	0	0	0	0	
8/30/2015	67	47	81	2	0	0	0	0	4	0	
8/31/2015	67	47	82	1	0	0	0	0	0	0	
Total			60							0	

REMARKS
 (Maximum length 110 characters)

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 None
 August-15

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DATE	Casing	PSI	STATIC	MCF	SPM	CYCLE DOWN	HRS	Water	BLS	REMARKS (Maximum length 110 characters)
9/1/2015	82	95	2	0	0	0	0	0	0	
9/2/2015	63	76	2	0	0	0	0	0	0	
9/3/2015	62	75	2	0	0	0	0	0	0	
9/4/2015	65	78	2	0	0	0	0	0	0	
9/5/2015	69	82	2	0	0	0	0	0	0	
9/6/2015	72	85	2	0	0	0	0	0	0	
9/7/2015	72	85	2	0	0	0	0	0	0	
9/8/2015	71	84	2	0	0	0	0	0	0	
9/9/2015	75	88	2	0	0	0	0	0	0	
9/10/2015	64	77	2	0	0	0	0	0	0	
9/11/2015	66	79	2	0	0	0	0	0	0	
9/12/2015	68	81	2	0	0	0	0	0	0	
9/13/2015	67	80	2	0	0	0	0	0	0	
9/14/2015	67	80	2	0	0	0	0	0	0	
9/15/2015	68	81	2	0	0	0	0	0	0	
9/16/2015	69	82	2	0	0	0	0	0	0	
9/17/2015	69	82	2	0	0	0	0	0	0	
9/18/2015	70	83	2	0	0	0	0	0	0	
9/19/2015	68	81	1	0	0	0	0	0	0	
9/20/2015	66	79	2	0	0	0	0	0	0	
9/21/2015	66	79	2	0	0	0	0	0	0	
9/22/2015	67	80	2	0	0	0	0	0	0	
9/23/2015	67	80	2	0	0	0	0	0	0	
9/24/2015	67	80	2	0	0	0	0	0	0	
9/25/2015	67	80	2	0	0	0	0	0	0	
9/26/2015	67	80	2	0	0	0	0	0	0	
9/27/2015	67	80	2	0	0	0	0	0	0	
9/28/2015	67	80	2	0	0	0	0	0	0	
9/29/2015	67	80	2	0	0	0	0	0	0	
9/30/2015	67	80	2	0	0	0	0	0	0	
10/1/2015	0	0	0	0	0	0	0	0	0	
Total										
59										
0										

September-15

None

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Smart 33-30

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