

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**
 Deliverability

Test Date:
7/24/2013

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="radio"/> Yes / <input type="radio"/> 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 7-23		20 13 at 10:00		(AM) (PM) Taken 7-24	
Well on Line: Started 7-24		20 13 at 10:15		(AM) (PM) Taken 7-25	
		20 13 at 10:15		(AM) (PM) Taken 7-25	
		20 13 at 10:15		(AM) (PM) Taken 7-25	

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 _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						182	196.4				
Flow						55	69.4			24	

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

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (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.

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Janell Montney
For Company

Witness (if any)

DEC 26 2013

For Commission

CONSERVATION DIVISION
WICHITA KS

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 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: 11/21/13

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Signature: *Arnold Matting*

Title: Production Assistant

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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.

W372
 Stuart 33-30
 St. Francis
 St. Francis
 None
 July-13

DATE	Casing		HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN	
7/1/2013	55	68	4		
7/2/2013	55	68	4		
7/3/2013	57	70	4		
7/4/2013	57	60	4		
7/5/2013	57	60	4		
7/6/2013	58	71	3		
7/7/2013	69	82	3		
7/8/2013	68	81	3		
7/9/2013	68	81	3		
7/10/2013	59	72	3		
7/11/2013	61	74	2		
7/12/2013	70	83	2		
7/13/2013	78	91	2		
7/14/2013	78	91	2		
7/15/2013	58	71	2		
7/16/2013	57	70	2		
7/17/2013	54	67	2		
7/18/2013	80	93	0		
7/19/2013	72	85	0		
7/20/2013	75	88	0		
7/21/2013	77	90	0		
7/22/2013	73	86	0		
7/23/2013	76	80	0		shut in for state
7/24/2013	182	100	0	24	
7/25/2013	80	93	2		
7/26/2013	68	81	3		
7/27/2013	58	71	3		
7/28/2013	60	73	3		
7/29/2013	58	71	3		
7/30/2013	58	71	3	3.5	
7/31/2013	87	100	3	5.5	

Total 69

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W372
 Stuart 33-30
 St. Francis
 St. Francis
 None
 August-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
8/1/2013	79	92		3	
8/2/2013	79	92		2	
8/3/2013	77	90		2	
8/4/2013	74	87		2	
8/5/2013	68	81		2	
8/6/2013	56	69		2	
8/7/2013	52	65		2	
8/8/2013	56	69		2	
8/9/2013	60	73		2	
8/10/2013	57	70		3	
8/11/2013	55	68		2	
8/12/2013	56	69		2	
8/13/2013	55	68		2	
8/14/2013	56	69		2	
8/15/2013	56	69		2	0.5
8/16/2013	66	79		2	
8/17/2013	66	79		2	
8/18/2013	68	81		2	
8/19/2013	68	81		2	1.5
8/20/2013	79	92		2	1
8/21/2013	88	101		2	
8/22/2013	90	103		1	
8/23/2013	75	88		2	
8/24/2013	83	96		2	1
8/25/2013	89	102		2	1
8/26/2013	56	69		2	
8/27/2013	53	66		2	
8/28/2013	53	66		2	
8/29/2013	81	94		2	1
8/30/2013	87	100		2	
8/31/2013	87	100		1	

Total

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CONSERVATION DIVISION
 WICHITA, KS

W372

Stuart 33-30

St. Francis

St. Francis

None

September-13

DATE	Casing			HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	DOWN		
9/1/2013	105	118		1	1	
9/2/2013	105	118		1		
9/3/2013	124	137		1	22	
9/4/2013	177	190		0	10	
9/5/2013	117	130		2		
9/6/2013	89	102		2	1	
9/7/2013	94	107		2		
9/8/2013	93	106		1		
9/9/2013	103	116		1		
9/10/2013	110	123		1	2	
9/11/2013	123	136		1		
9/12/2013	174	187		0	18	
9/13/2013	98	111		1	4	
9/14/2013	80	93		3	2	
9/15/2013	87	100		2		
9/16/2013	64	77		3		
9/17/2013	56	69		3		
9/18/2013	55	68		3		
9/19/2013	50	63		3		
9/20/2013	51	64		2		
9/21/2013	65	78		1		
9/22/2013	62	75		0		
9/23/2013	65	78		0		
9/24/2013	58	71		0	4	
9/25/2013	85	98		2		
9/26/2013	75	88		3		
9/27/2013	54	67		3		
9/28/2013	56	69		2		
9/29/2013	57	70		3		
9/30/2013	61	74		3		
10/1/2013						

Total

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