

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **ASL**
 Deliverability

Test Date:
8/14/2012

API No. 15
023-20664-0000

Company Rosewood Resources, Inc.		Lease Hilt		Well Number 13-33	
County Cheyenne	Location NWSW	Section 33	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/30/2006		Plug Back Total Depth 1777'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1777.49'	Perforations 1618'	To 1646'
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 / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen Gas Gravity - G _g .6	
Vertical Depth(H) 1646'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-13		20 12 at 1:35 (AM) <input checked="" type="radio"/> (PM)		Taken 8-14 20 12 at 1:50 (AM) <input checked="" type="radio"/> (PM)	
Well on Line: Started 8-14		20 12 at 1:50 (AM) <input checked="" type="radio"/> (PM)		Taken 8-15 20 12 at 2:35 (AM) <input checked="" type="radio"/> (PM)	

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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						122	136.4				
Flow						34	48.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _a) (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
						16		

(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 19 day of December, 20 12.

Witness (if any)

Samuel Grew
For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

KCC WICHITA

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 Hilt 13-33
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: 12/19/12

Signature: 

Title: Production Assistant

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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Hilt 13-33

West St. Francis

St. Francis

None

August-12

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	Water	REMARKS
	PSI	PSI							
8/1/2012		31	44	11	7	12		15	
8/2/2012		32	45	13	7	12		16	
8/3/2012		32	45	13	7	12		17	
8/4/2012		32	45	13	7	12		16	
8/5/2012		54	67	13	7	12		17	
8/6/2012		46	59	14	7	12		16	
8/7/2012		37	50	14	7	12		15	
8/8/2012		37	50	14	7	12		16	
8/9/2012		35	48	14	7	12		17	bucket test 5 min
8/10/2012		33	46	14	7	12		16	
8/11/2012		64	77	14	7	12	1.5	15	
8/12/2012		36	49	14	7	12		16	
8/13/2012		32	45	15	7	6			8 shut in for state test psi 33
8/14/2012		122	47	0	7	6	24	5	open well psi 122
8/15/2012		34	47	15	7	12		18	
8/16/2012		27	40	15	7	12		17	bucket test 5 min
8/17/2012		32	45	13	7	12			8 not pumping, restarted
8/18/2012		32	45	15	7	12		16	
8/19/2012		32	45	16	7	12		15	
8/20/2012		31	44	16	7	12		17	
8/21/2012		31	44	16	7	12		16	
8/22/2012		30	43	16	7	12		15	
8/23/2012		33	46	16	7	12		16	
8/24/2012		34	47	16	7	12		17	bucket test 5 min
8/25/2012		34	47	16	7	12		16	
8/26/2012		32	45	16	7	12		15	
8/27/2012		32	45	16	7	12		16	
8/28/2012		38	51	16	7	12		17	
8/29/2012		35	48	16	7	12		16	
8/30/2012		34	47	16	7	12		17	
8/31/2012		34	47	16	7	12		17	

Total

442

474

W437
 Hilt 13-33
 West St. Francis
 St. Francis
 None
 September-12

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	Water	REMARKS
	PSI	PSI							
9/1/2012		34	47	16	7	12		16	
9/2/2012		34	47	16	7	12		15	
9/3/2012		34	47	16	7	12		16	
9/4/2012		33	46	16	7	12		17	
9/5/2012		65	78	12	7	12	1	16	
9/6/2012		33	46	14	7	12		15	shut pumping unit off hfp
9/7/2012	123	136	4	7	0	0	19	0	
9/8/2012	126	139	0	7	0	0	24	0	
9/9/2012	128	141	0	7	0	0	24	0	
9/10/2012	130	143	0	7	0	0	24	0	
9/11/2012	132	145	0	7	0	0	24	0	
9/12/2012	133	146	0	7	0	0	24	0	
9/13/2012	111	124	9	7	0	0	10	0	
9/14/2012	98	111	18	7	0	0		0	
9/15/2012	91	104	13	7	0	0		0	
9/16/2012	86	99	11	7	0	0		0	
9/17/2012	77	90	10	7	0	0		0	
9/18/2012	51	64	9	7	6			0	started pumping unit
9/19/2012	82	95	11	7	2			4	shut pumping unit off hfp
9/20/2012	27	40	10	7	6			8	started pumping unit
9/21/2012	33	46	11	7	12			16	
9/22/2012	33	46	12	7	12			17	
9/23/2012	33	46	13	7	12			18	
9/24/2012	34	47	14	7	12			17	
9/25/2012	34	47	13	7	12			17	bucket test 5 min
9/26/2012	35	48	14	7	12			16	
9/27/2012	36	49	14	7	12			15	
9/28/2012	34	47	14	7	12			17	
9/29/2012	35	48	14	7	12			18	
9/30/2012	34	47	14	7	12			17	
10/1/2012									

Total

318

275

W437

Hilt 13-33

West St. Francis

St. Francis

None

October-12

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JAN 03 2013

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DATE	Casing				HRS CYCLIDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF	SPM			
10/1/2012	33	46	12	7	0	0	
10/2/2012	33	46	11	7	0	0	
10/3/2012	31	44	10	7	6	8	pumping not on reset and restarted
10/4/2012	33	46	12	7	12	17	
10/5/2012	33	46	12	7	12	16	
10/6/2012	32	45	13	7	12	17	
10/7/2012	32	45	13	7	12	16	
10/8/2012	33	46	13	7	12	15	
10/9/2012	33	46	13	7	12	16	
10/10/2012	33	46	14	7	12	17	bucket test 5 min
10/11/2012	32	45	14	7	12	16	
10/12/2012	33	46	14	7	12	17	
10/13/2012	33	46	14	7	12	19	
10/14/2012	33	46	14	7	12	15	
10/15/2012	33	46	14	7	12	17	
10/16/2012	63	76	14	7	12	16	
10/17/2012	43	56	13	7	12	17	
10/18/2012	33	46	14	7	12	16	
10/19/2012	29	42	14	7	12	17	bucket test 5 min and treated well
10/20/2012	52	65	14	7	12	16	
10/21/2012	36	49	15	7	12	15	
10/22/2012	36	49	15	7	6	8	shut pumping unit off
10/23/2012	30	43	13	7	0	0	
10/24/2012	29	42	11	7	6	7	started pumping unit
10/25/2012	32	45	13	7	12	17	
10/26/2012	31	44	13	7	12	16	
10/27/2012	32	45	14	7	12	15	
10/28/2012	31	44	14	7	12	18	
10/29/2012	85	98	14	7	6	2	8 pu off hfp
10/30/2012	69	82	13	7	0	0	
10/31/2012	43	56	12	7	6	10	started pumping unit

Total

409

402