

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**
 Deliverability

Test Date:
8/19/2012

API No. 15
023-20561-0000

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 1-24	
County Cheyenne	Location NESW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 9-10-2004		Plug Back Total Depth 1496'	Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1539'	Perforations 1326'	To 1364'
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) 1364'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-18		20 12 at 9:10	(AM) (PM)	Taken 8-19 20 12 at 9:25 (AM) (PM)	
Well on Line: Started 8-19		20 12 at 9:25	(AM) (PM)	Taken 8-20 20 12 at 10:10 (AM) (PM)	

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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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						108	122.4				
Flow						55	69.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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
						45		

(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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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)

For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

JAN 03 2013

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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 Zimbelman 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: 12/19/12

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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Zimbelman 01-24

St. Francis

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None

August-12

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DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2012		55	68	42	6.5	6		9 5 min bt
8/2/2012		58	71	42	6.5	6		10
8/3/2012		57	70	43	6.5	6		11
8/4/2012		57	70	43	6.5	6		9
8/5/2012		58	71	43	6.5	6		10
8/6/2012		56	69	42	6.5	6		12
8/7/2012		61	74	43	6.5	6		8 5.25 min bt
8/8/2012		60	73	42	6.5	6		8
8/9/2012		58	71	42	6.5	6		8
8/10/2012		63	76	41	6.5	6	1.5	7
8/11/2012		58	71	42	6.5	6		6
8/12/2012		61	74	43	6.5	6		7
8/13/2012		55	68	43	6.5	6		8
8/14/2012		54	67	43	6.5	6		9 5 min bt greased
8/15/2012		61	74	43	6.5	6		10
8/16/2012		55	68	42	6.5	6		9
8/17/2012		52	65	43	6.5	3		5 si for state test cp-65
8/18/2012		52	65	38	6.5	3		5 reopened cp-108
8/19/2012		52 103	74	0	6.5	6	24	10
8/20/2012		55	68	52	6.5	6		8 5.25 min bt
8/21/2012		54	67	48	6.5	6		9
8/22/2012		54	67	46	6.5	6		7
8/23/2012		56	69	46	6.5	6		9
8/24/2012		59	72	45	6.5	6		8
8/25/2012		62	75	45	6.5	6		9
8/26/2012		62	75	44	6.5	6		10
8/27/2012		62	75	44	6.5	6		9
8/28/2012		56	69	46	6.5	6		8
8/29/2012		58	71	45	6.5	6		8 5.5 min bt
8/30/2012		57	70	46	6.5	6		9
8/31/2012		58	71	45	6.5	6		10

Total

1312

265

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St. Francis

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None

September-12

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KCC WICHITA

DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI							
9/1/2012		57	70	45	6.5	6		8	
9/2/2012		57	70	45	6.5	6		9	
9/3/2012		57	70	45	6.5	6		7	
9/4/2012		57	70	45	6.5	6	1	8	
9/5/2012		73	86	45	6.5	6		9	
9/6/2012		56	69	43	6.5	3		8	5.5 min bt, pu off hfp
9/7/2012		107	120	35	6.5	0	19	0	
9/8/2012		112	125	0	6.5	0	24	0	
9/9/2012		115	128	0	6.5	0	24	0	
9/10/2012		117	130	0	6.5	0	24	0	
9/11/2012		119	132	0	6.5	0	24	0	
9/12/2012		120	133	0	6.5	0	24	0	
9/13/2012		111	124	0	6.5	0	10	0	
9/14/2012		101	114	14	6.5	0		0	
9/15/2012		93	106	37	6.5	0		0	
9/16/2012		92	105	44	6.5	0		0	
9/17/2012		81	94	45	6.5	0		0	
9/18/2012		61	74	53	6.5	3		8	restart pu
9/19/2012		79	92	52	6.5	3		8	pu off hfp
9/20/2012		51	64	45	6.5	3		8	restart pu
9/21/2012		53	66	46	6.5	6		16	
9/22/2012		53	66	46	6.5	6		15	
9/23/2012		53	66	46	6.5	6		14	
9/24/2012		57	70	46	6.5	6		15	
9/25/2012		60	73	45	6.5	6		15	
9/26/2012		60	73	45	6.5	6		16	
9/27/2012		69	82	44	6.5	6		9	4.75 min bt
9/28/2012		60	73	45	6.5	6		10	
9/29/2012		60	73	45	6.5	6		11	
9/30/2012		60	73	45	6.5	6		9	
10/1/2012									

Total

1046

203

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St. Francis

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None

October-12

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DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
10/1/2012		61	74	45	6.5	6	8
10/2/2012		61	74	45	6.5	6	10
10/3/2012		61	74	44	6.5	6	11
10/4/2012		58	71	45	6.5	6	8 4.75 min bt
10/5/2012		58	71	45	6.5	6	9
10/6/2012		57	70	45	6.5	6	8
10/7/2012		59	72	45	6.5	6	7
10/8/2012		59	72	45	6.5	6	8
10/9/2012		59	72	45	6.5	6	9
10/10/2012		59	72	44	6.5	6	6
10/11/2012		60	73	45	6.5	6	8 5.25 min bt greased
10/12/2012		59	72	45	6.5	6	9
10/13/2012		62	75	45	6.5	6	10
10/14/2012		63	76	44	6.5	6	7
10/15/2012		60	73	43	6.5	6	9
10/16/2012		64	77	44	6.5	6	1 7
10/17/2012		58	71	42	6.5	6	9 5 min bt
10/18/2012		58	71	45	6.5	6	8
10/19/2012		58	71	44	6.5	6	8
10/20/2012		59	72	44	6.5	6	8
10/21/2012		58	71	44	6.5	6	7
10/22/2012		58	71	44	6.5	6	8
10/23/2012		58	71	44	6.5	6	9
10/24/2012		57	70	44	6.5	6	9 5 min bt
10/25/2012		56	69	44	6.5	6	10
10/26/2012		58	71	44	6.5	6	7
10/27/2012		56	69	44	6.5	6	8
10/28/2012		56	69	44	6.5	6	11
10/29/2012		75	88	44	6.5	3	2 5 pu off hfp
10/30/2012		73	86	39	6.5	0	0
10/31/2012		54	67	42	6.5	3	5 restart pu

Total

1366

246