

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

Open Flow **AST**
 Deliverability

Test Date:
5/9/2011

API No. 15
023-21259-00-00

Company Rosewood Resources, Inc.		Lease Zwegardt		Well Number 32-19	
County Cheyenne	Location SWNE	Section 19	TWP 3S	RNG (E/W) 40W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9/26/2010		Plug Back Total Depth 1471'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 6.366	Set at 1509'	Perforations 1286'	To 1316'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Travelling Plunger? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1525'		Pressure Taps Flange		Gas Gravity - G _g .6 (Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 5-8	20 11 at 5:50	(AM) <input checked="" type="checkbox"/> (PM)	Taken 5-9	20 11 at 6:10 (AM) <input checked="" type="checkbox"/> (PM)
Well on Line:	Started 5-9	20 11 at 6:10	(AM) <input checked="" type="checkbox"/> (PM)	Taken 5-10	20 11 at 6:30 (AM) <input checked="" type="checkbox"/> (PM)

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 _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						195	209.4				
Flow						111	125.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _o) 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)	Fibing Fluid Gravity G _m
						40		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = 0.207

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

(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_d^2}$	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 28 day of December, 20 11

Witness (if any)

For Commission

Jannell Grew
For Company

Checked by

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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 Zweygardt 32-19 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: 12/28/11

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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W2737
 Zweygardt 32-19
 St. Francis
 St. Francis
 Flow
 May-11
 FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
5/1/2011		202	161	54				
5/2/2011		202	161	54				
5/3/2011		202	160	54				
5/4/2011		152	157	55				
5/5/2011		153	147	53				
5/6/2011		157	144	50				
5/7/2011		157	142	49				
5/8/2011		220	179	39				
5/9/2011		195	149	0		24		Compressor Down
5/10/2011		148	161	31				
5/11/2011		148	161	54				
5/12/2011		127	140	51				
5/13/2011		124	137	47				
5/14/2011		122	135	45				
5/15/2011		120	133	45				
5/16/2011		119	132	45				
5/17/2011		118	131	44				
5/18/2011		116	129	43				
5/19/2011		115	128	43				
5/20/2011		115	128	43				
5/21/2011		115	128	42				
5/22/2011		120	133	43				
5/23/2011		113	126	42				
5/24/2011		113	126	37				
5/25/2011		112	125	41				
5/26/2011		111	124	41				
5/27/2011		111	124	41				
5/28/2011		112	125	40				
5/29/2011		111	124	40				
5/30/2011		112	125	40				
5/31/2011		109	122	40				

Total

1346

0

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 KCC WICHITA

W2737

Zweygardt 32-19

St. Francis

St. Francis

Flow

June-11

FloBoss

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
6/1/2011		118	131	39				
6/2/2011		109	122	39				
6/3/2011		107	120	39				
6/4/2011		109	122	39				
6/5/2011		108	121	38				
6/6/2011		107	121	38				
6/7/2011		106	119	38				
6/8/2011		106	119	38				
6/9/2011		106	119	38				
6/10/2011		106	119	38				
6/11/2011		107	120	37				
6/12/2011		106	119	37				
6/13/2011		106	119	37				
6/14/2011		106	119	37				
6/15/2011		104	117	37				
6/16/2011		107	120	36				
6/17/2011		105	118	36				
6/18/2011		106	119	36				
6/19/2011		105	118	36				
6/20/2011		104	117	36				
6/21/2011		105	118	36				
6/22/2011		105	118	35				
6/23/2011		112	125	35		1		
6/24/2011		103	116	35				
6/25/2011		103	116	35				
6/26/2011		102	115	35				
6/27/2011		102	115	34				
6/28/2011		101	114	34				
6/29/2011		102	115	34				
6/30/2011		101	114	34				
7/1/2011								

Total

1096

0

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KCC WICHITA

W2737
 Zwegardt 32-19
 St. Francis
 St. Francis
 Flow
 July-11
 FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI					
7/1/2011		101	114	34			
7/2/2011		100	113	34			
7/3/2011		100	113	34			
7/4/2011		101	114	34			
7/5/2011		101	114	34			
7/6/2011		99	112	34			
7/7/2011		100	113	34			
7/8/2011		100	113	34			
7/9/2011		100	113	34			
7/10/2011		100	113	33			
7/11/2011		100	113	33			
7/12/2011		99	112	33			
7/13/2011		92	105	33		1	
7/14/2011		99	112	32			
7/15/2011		98	111	33			
7/16/2011		98	111	33			
7/17/2011		100	113	33			
7/18/2011		109	122	33			
7/19/2011		100	113	33		2	
7/20/2011		98	111	33			
7/21/2011		103	116	33			
7/22/2011		96	109	33			
7/23/2011		96	109	33			
7/24/2011		94	107	32			
7/25/2011		96	109	32			
7/26/2011		95	108	32			
7/27/2011		94	107	32			
7/28/2011		95	108	32			
7/29/2011		109	122	31			
7/30/2011		96	109	32			
7/31/2011		96	109	32			
Total			1022			0	

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