

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow **BST**
 Deliverability

Test Date:
7/13/2011

API No. 15
023-20565-00-00

Company Rosewood Resources, Inc.		Lease Zweygardt		Well Number 1-24	
County Cheyenne	Location SWNE	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-10-2004		Plug Back Total Depth 1368'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1411'	Perforations 1216'	To 1254'
Tubing Size NONE 2 3/8"	Weight	Internal Diameter	Set at 1271'	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	Gas Gravity - G _s .6
Vertical Depth(H) 1254'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut In <u>7-12</u> at <u>20 11:30</u> (AM)(PM) Taken <u>7-13</u> at <u>20 11:45</u> (AM)(PM)					
Well on Line: Started <u>7-13</u> at <u>20 11:45</u> (AM)(PM) Taken <u>7-14</u> at <u>20 11:30</u> (AM)(PM)					

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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						62	76.4				
Flow						67	81.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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
						43		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ : (P_w)² = _____ : P_e = _____ % (P_e - 14.4) + 14.4 = _____ : (P_e)² = 0.207
(P_e)² = _____

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

Witness (if any)

For Commission

Janell Grew

For Company
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KCC WICHITA

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 Zweygardt 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: 12/28/11

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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Zweygardt 01-24

St. Francis

St. Francis

None

July-11

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
7/1/2011		68	81	44	7.5	1	1	
7/2/2011		68	81	44	7.5	1	1	
7/3/2011		68	81	44	7.5	1	1	
7/4/2011		68	81	44	7.5	1	1	
7/5/2011		68	81	44	7.5	1	1	
7/6/2011		67	80	44	7.5	1	2	
7/7/2011		68	81	44	7.5	1	1	8.5 min bt greased
7/8/2011		68	81	43	7.5	1	1	
7/9/2011		68	81	43	7.5	1	2	
7/10/2011		68	81	43	7.5	1	1	
7/11/2011		67	80	43	7.5	1	2	3.5 min bt
7/12/2011		66	79	43	7.5	1	1	squeezed well, SI
7/13/2011		62	75	0	7.5	1	24	reopened well
7/14/2011		67	80	43	7.5	1	1	
7/15/2011		67	80	43	7.5	1	1	
7/16/2011		67	80	42	7.5	1	1	
7/17/2011		71	84	39	7.5	1	1	
7/18/2011		78	91	43	7.5	1	1	pu off, high field pressure
7/19/2011		69	82	38	7.5	1	2	restart pu
7/20/2011		67	80	41	7.5	1	1	3.5 min bt
7/21/2011		74	87	36	7.5	1	1	pu off, high field pressure
7/22/2011		64	77	44	7.5	1	1	restart pu
7/23/2011		65	78	44	7.5	1	1	
7/24/2011		65	78	43	7.5	1	1	
7/25/2011		65	78	43	7.5	1	1	
7/26/2011		64	77	43	7.5	1	1	
7/27/2011		65	78	43	7.5	1	1	
7/28/2011		66	79	43	7.5	1	2	4.5 min bt
7/29/2011		78	91	35	7.5	1	2	off at pole, high fp
7/30/2011		53	66	43	7.5	1	1	started pumping unit
7/31/2011		53	66	41	7.5	1	2	

Total

1270

37

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Zweygardt Oil 24

St. Francis

St. Francis

None

August-11

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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBL	REMARKS (Maximum length 110 characters)
8/1/2011		66	79	41	7.5	1	1	
8/2/2011		65	78	41	7.5	1	1	
8/3/2011		66	79	41	7.5	1	2	
8/4/2011		65	78	41	7.5	1	2	3 min bt
8/5/2011		65	78	41	7.5	1	1	
8/6/2011		66	79	41	7.5	1	1	
8/7/2011		65	78	41	7.5	1	1	
8/8/2011		64	77	40	7.5	1	1	2.75 min bt greased
8/9/2011		64	77	40	7.5	1	1	
8/10/2011		62	75	44	7.5	1	1	
8/11/2011		74	87	38	7.5	0.5	0.5	turned off pu, high fp
8/12/2011		93	106	35	7.5	0	0	
8/13/2011		83	96	41	7.5	0	0	
8/14/2011		76	89	36	7.5	0	0	
8/15/2011		89	102	36	7.5	0	0	
8/16/2011		66	79	44	7.5	0.5	0.5	restart pu
8/17/2011		105	118	29	7.5	0.5	5	pu off hfp
8/18/2011		65	78	38	7.5	0.5	4	0.5 restart pu
8/19/2011		72	85	44	7.5	0.5	1	1
8/20/2011		65	78	48	7.5	0.5	1	
8/21/2011		65	78	48	7.5	0.5	1	
8/22/2011		64	77	46	7.5	0.5	1	
8/23/2011		84	97	46	7.5	0.5	1	replace check valve flapper
8/24/2011		62	75	45	7.5	0.5	1	
8/25/2011		66	79	44	7.5	0.5	1	
8/26/2011		64	77	41	7.5	0.5	1	
8/27/2011		65	78	45	7.5	0.5	2	
8/28/2011		65	78	43	7.5	0.5	1	
8/29/2011		65	78	43	7.5	0.5	2	
8/30/2011		65	78	43	7.5	0.5	1	3.5 min bt
8/31/2011		65	78	43	7.5	0.5	2	

Total

1287

30

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W384
 Zweygardt 01-24
 St. Francis
 St. Francis
 None
 September-11
 FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS CYCLE DOWN	Water BLS	REMARKS (Maximum length 110 characters)
	PSI	PSI					
9/1/2011		66	79	43	7.5	0.5	1
9/2/2011		65	78	42	7.5	0.5	1
9/3/2011		66	79	42	7.5	0.5	1
9/4/2011		65	78	42	7.5	0.5	1
9/5/2011		64	77	42	7.5	0.5	1
9/6/2011		64	77	42	7.5	0.5	1
9/7/2011		66	79	43	7.5	0.5	1
9/8/2011		65	78	42	7.5	0.5	1 3.75 min bt
9/9/2011		65	78	42	7.5	0.5	1
9/10/2011		65	78	42	7.5	0.5	1
9/11/2011		66	79	42	7.5	0.5	1
9/12/2011		65	78	42	7.5	0.5	1
9/13/2011		64	77	42	7.5	0.5	1
9/14/2011		66	79	42	7.5	0.5	1
9/15/2011		64	77	42	7.5	0.5	1
9/16/2011		65	78	42	7.5	0.5	1 5.5 min bt
9/17/2011		64	77	42	7.5	0.5	1
9/18/2011		64	77	42	7.5	0.5	1
9/19/2011		65	78	42	7.5	0.5	1
9/20/2011		64	77	42	7.5	0.5	1 4 min bt
9/21/2011		64	77	42	7.5	0.5	1
9/22/2011		64	77	42	7.5	0.5	1
9/23/2011		63	76	42	7.5	0.5	1
9/24/2011		72	85	42	7.5	0.5	1
9/25/2011		64	77	41	7.5	0.5	1
9/26/2011		64	77	42	7.5	0.5	1
9/27/2011		62	75	41	7.5	0.5	1
9/28/2011		68	81	45	7.5	2	4 4 min bt chg timer to 2 hrs
9/29/2011		61	74	43	7.5	2	3
9/30/2011		61	74	43	7.5	2	5
10/1/2011							

Total

1265

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