## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

6.4

Type Test:	n Flow	ØSI		Test Date	See Instruct	ions on He	rerse Side	,	No. 15			
Deli	verabilty			6/22/14	, <b>.</b>				3-21261-00 <b>(</b>	) <b>b</b>		
Company Rosewood Resources, Inc.				Lease Zweygardt						24-19	Well Number	
County Location Cheyenne SESW			on	Section TWP 19 3S				RNG (E 40W	(W)		Acres Attributed 80	
Field Cherry Cr	reek			Reservoir Niobrara					hering Conn Systems In		-	
Completion 9/15/2010				Plug Bac 1465'	k Total Dept	h		Packer S	Set at			
Casing Siz 4 1/2"	re	Weight 10.5#		Internal D 6.366	Diameter	Set at 1503'		Perforations 1266'		то 1296'		
Tubing Siz	:e	Weigh		Internal [	Diameter	Set a	ıt	Perfo	rations	То		
Type Comp				Type Flui Dry Ga	d Production	1		Pump U	nit or Traveling	Plunger? Yes	No	
_		inulus / Tubing	)	% C	arbon Dioxi	de	_	% Nitrog	jen		avity - G <sub>g</sub>	
Annulus					Dues	T				,6 (Mater 5	Proves Cine	
Vertical De	eptn(H)			Pressure Taps Flange						2"	Run) (Prover) Size	
Pressure E	Buildup:	Shut in 6-7	2	o <u>14</u> at 6	:10	(AM)(PM)	Taken_6-	16	20	14 <sub>at</sub> 6:25	(AM((PM))	
Well on Lir	ne:	Started 6-22	2	0 <u>14</u> at <u>6</u>	:25	(AM) (PM)	Taken 6-	23		14 at 6:45	(AM)(PM)	
					OBSERVE	D SURFACE				Duration of Shut-	n_360Hour	
Static / Dynamic Property	Dynamic Size Meter Differentia Property (inches) Prover Pressure in		Differential	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>o</sub> ) psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In						230	244.4	psig	pola			
Flow						61	75.4	<u> </u>		360		
	- ,				FLOW STR	EAM ATTR	IBUTES_		<del>-</del>	<del></del>	<del></del>	
Plate Coefficient  (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd  Circle one:  Meter or  Pross Extension  Prover Pressure psia		Extension	Gravity Factor F <sub>g</sub>		Flowing femperature Factor F <sub>f1</sub>	perature Factor		Metered Flor R (Mcfd)	w GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G_m		
							78					
	•			(OPEN FL	OW) (DELIV	ERABILITY;	CALCUL	ATIONS		(P )	= 0.207	
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		% (F	· 14.4) +	14.4 = _	:	(P <sub>a</sub> ) <sup>2</sup>		
$ \begin{array}{c cccc} (P_c)^2 - (P_a)^2 & (P_c)^2 - (P_w)^2 & 1. \ P_c^2 - P_a^2 \\ \text{or} \\ (P_c)^2 - (P_d)^2 & 2. \ P_c^2 - P_d^2 \\ \end{array} $			LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n" Assigned Standard Stope		n x LOG		Antilog Ed	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				-7.	<u> </u>							
								[				
Open Flow	1		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a	
The u	ndersigne	ed authority, or	behalf of the	Company,	states that h	e is duly au				ort and that he ha	s knowledge of	
the facts sta	ated there	ein, and that sa	id report is true		t. Executed Re	ceived	·	day of _	ecember	Mit	, 20 <u>14</u>	
		Witness (if	any)			2 5 2019		y Cl	For	Company		
		For Comm	ission		CONSERV	- ATION DIVISI	ON		Che	cked by		

CONSERVATION DIVISION WICHITA, KS

exempt statu and that the correct to th of equipmer	the under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  The foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records and installation and/or upon type of completion or upon use being made of the gas well herein named.
	request a one-year exemption from open flow testing for the Zweygardt 24-19 the grounds that said well:
gas well on	me grounds mat said wen.
(0	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
	r agree to supply to the best of my ability any and all supporting documents deemed by Commission
statt as nec	essary to corroborate this claim for exemption from testing.
Date: 12/12	<u>''14                                   </u>
	Received KANSAS CORPORATION COMMISSION SIGNATURE:  Received  Received  Received  Received  Received  Received  Received
	LER 5.3 5013
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	Marine :

Instructions:

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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 24-19

St. Francis

St. Francis

Flow

June-174

FloBoss

FIOBOSS	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	56	69	31	0	<del></del>
6/2/2013	61	74	30	0	
6/3/2013	55	68	30	0	
6/4/2013	70	83	30	0	
6/5/2013	50	63	30		
6/6/201	53	66	29		
6/7/2013	175	188	20		
6/8/2013	188	201	C		
6/9/2013	201	214			
6/10/201 <b>\$</b>	213				
6/11/2013	222				
6/12/2013	227				
6/13/2013	228				
6/14/2013	229				
6/15/2013	229	242			
6/16/2013	230				
6/17/2013	231				
6/18/2013	230	243	(		
6/19/2013	226				
6/20/2013	221	234			
6/21/2013	211	224			
6/22/2013	211				
6/23/2013	120				
6/24/2013	111				
6/25/2013	105				
6/26/2013	95				
6/27/2013	86				
6/28/2013	58				
6/29/2013	57				
6/30/2013	58	71	33		
7/1/2013				0	

Total

513

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Zweygardt 24-19

St. Francis

St. Francis

Flow

July-14

FloBoss

DATE	Casing	TATIO MOD	_	HRS	War		REMARKS
DATE		STATIC MCF		DOWN	BB		(Maximum length 110 characters)
7/1/2014	58	71	33		)	0	
7/2/2014	58	71	31		)		turn on pumping unit
7/3/2014	59	72	43		0	12	
7/4/2014	59	72	48		)	19	
7/5/2014	60	73	57		)	28	
7/6/2014	61	74	61		0	20	
7/7/2014	71	84	63		)	19	
7/8/2014	62	75	66		)	18	
7/9/2014	63	76	68		)	19	
7/10/2014	64	77	70		)	18	
7/11/2014	67	80	72		)	20	
7/12/2014	67	80	74		)	8	
7/13/2014	65	78	68		)	0	
7/14/2014	89	102	56		)		pu off, added oil and restarted
7/15/2014	58	71	65		)	12	
7/16/2014	61	74	72		)	20	
7/17/2014	61	74	74	(	)	19	
7/18/2014	63	76	75	(	)	20	
7/19/2014	59	72	76	(	)	19	
7/20/2014	59	72	63	(	)	0	pu off. HFP
7/21/2014	135	148	56	(	)	0	
7/22/2014	136	149	15	22	2	0	
7/23/2014	84	97	61	•	7	0	
7/24/2014	66	79	59	;	3	0	
7/25/2014	57	70	53	4	4	0	
7/26/2014	56	69	60	(	)	18	started pumping unit
7/27/2014	58	71	62	(	)	91	
7/28/2014	59	72	69	(	C	20	
7/29/2014	59	72	73	(	)	19	
7/30/2014	60	73	76	•	)	18	
7/31/2014	62	75	<u>7</u> 6		)	19	

Total 1895 456

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Zweygardt 24-19

St. Francis

St. Francis

Flow

August-14

FloBos

Total

FloBoss								
	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2014	6	0 73	78	4	24	(	$2\overline{0}$	5 min BT
8/2/2014	6	1 74	78	4	24		20	
8/3/2014	6	1 74	78	4	24	0	20	
8/4/2014	6	2 75	78	4	24	C	20	
8/5/2014	6	1 74	79	4	24	0	20	
8/6/2014	6	1 74	79	4	24	0	20	
8/7/2014	6	2 75	80	4	24	C	20	
8/8/2014	6	2 75	80	4	24	C	20	
8/9/2014	6	3 76	80	4	24	0	20	
8/10/2014	6	4 77	76	4	24	C	20	
8/11/2014	7	1 84	75	4	24	C	20	
8/12/2014	5	9 72	: 77	' 4	24	0	20	
8/13/2014	10	4 117	77	' 4	24	C	20	
8/14/2014	5	9 72	2 75	4	24	0	20	
8/15/2014	6	5 78	68	4	24		20	
8/16/2014	6	3 76	76	5 4	24		20	
8/17/2014	6	4 77	72	. 4	24		20	
8/18/2014	6	3 76	72	. 4	24		20	
8/19/2014	7	0 83	65	4	24		20	
8/20/2014	6	2 75	67	' 4	24		20	
8/21/2014	6	1 74	72	4	24	0	20	
8/22/2014	6	5 78	72	. 4	24	0	20	
8/23/2014	5	8 71	. 72			0	20	
8/24/2014	6	0 73	72	. 4	24	0	20	
8/25/2014	7	4 87	68	4	24	0	20	
8/26/2014	6	1 74	69	4	24	C	20	
8/27/2014	6	1 74	69	4	24	C	20	
8/28/2014	11	5 128	70	4	24	C	10	
8/29/2014	5	7 70	58	4	24	5	10	
8/30/2014	5	6 69			24	C	20	
8/31/2014	6	8 81	56	4	24	0	20	

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