KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

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Type Tes	it:		act		i	(See Instruc	tions on Re	overse Side	p)					
Open Flow					Test Date: API No. 15									
		шу			7/9/201	5		3-20565 - 00 0	<u> </u>					
Company Rosewo		sou	rces, Inc.				Lease Zweyga		Well Number 1-24					
County Location Cheyenne SWNE				Section 24					/W)	Acres Attributed 80				
Field Cherry Creek					Reservoi Niobrara	-	_	_		thering Conn				
Completion Date 7-10-2004					Plug Bac 1368'	k Total Dept	th		Packer	Set at				
Casing S 4 1/2"	Casing Size Weight 4 1/2" 10.5#				Internal I 4.052	Diameter	Set . 141		Perfo 121	orations 6'	то 1254'			
Tubing S NONE	Tubing Size Weight				Internal [Diameter	Set	at	Perf	orations	То			
	Type Completion (Describe) Single (Conventional)				Type Flui Dry Ga	id Production	n			nit or Traveling ing Unit	Plunger? Yes No			
	<u>`</u>		nulus / Tubin	g)		Carbon Dioxi	de		% Nitro		Gas Gravity - G			
Annulus											.6			
1254'	Pressure Buildup: Shut in 7-9				Pressure Taps Flange				. <u>-</u>		(Meter F	Run) (Prover) Size		
Pressure	Buildu	p: :	Shut in <u>7-9</u>	2	0.15 at 9	:30	(AM)(PM)	Taken_7-	10	20	15 at 9:45	((AM))(PM)		
	Well on Line: Started 7-10				0 <u>15</u> at <u>9</u>	:45	(AM)(PM)	Taken 7-	11	20	15 at 10:30	(AM) (PM)		
						OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n 24 Hours		
Static / Dynamic Property	ynamic Size <i>Meter</i> ronerty (inches) <i>Prover Pressur</i>		Pressure Differential in Inches H ₂ 0	ntial Temperature Tempera		Wellhead (P _w) or (F	P _r) or (P _e)	Wellhe	Tubing ead Pressure or (P _t) or (P _a)	Duration (Hours)	Liquid Produced (Barrels)			
Shut-in			psig (Pm)	Inches 11 ₂ 0			psig 91	105.4	psig	psla				
Flow						46	60.4			24				
		_				FLOW STR	EAM ATTR	IBUTES						
Coeffied (F _b) (F	Coefficient A		Circle one: Meter or ver Pressure psia	Press Extension P _m ×h	ension Factor		Flowing Temperature Factor F _{rt}		ation ctor	Metered Flow R (Mcfd)	y GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m		
							_			31				
				<u> </u>	(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		/D \2	= 0.207		
(P _c)² =		_:	(P _w)² =	:	P _d =	9	% (F	ੇ - 14.4) +	14.4 = _	:	(P _d) ²			
or	$(P_e)^2 - (P_g)^2$ $(P_s)^2 - (P_w)^2$ Choose to 1. P. or $(P_c)^2 - (P_d)^2$ 2. P.		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	2: LOG of formula 1. or 2. and divide p 2 - p 2		Backpressure Curve Slope ≈ "n" 		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mofd)			
				c w		<u> </u>								
		_				_		_						
Open Flor	Open Flow Mcfd @ 14.65 psia Deliverability									Mcfd @ 14.65 psia				
		_	•		• •		•			ne above repo Jecember	rt and that he ha	s knowledge of		
me facts s	ialed (f	reten	n, and that sa	aid report is true		CC WIC			uay or	3 10 01 1	1 Mail	20		
			Witness (i	f any)		<u>PR 07</u>			X	For C	Company	ay		
			For Comm	ission		<u> </u>	-010			Chec	cked by			

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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 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: 12/18/15
Signature:
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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.

W384 Zweygardi (01-24)

St. Francis

St. Francis

None

July-15

FloRose

FloBoss	Tubing	Casing					HRS	W:	ater	REMARKS
DATE	PSI	PSI	\$TAT	C MCF	SPM	CYCLE	DOWN		BLS	(Maximum length 110 characters
7/1/2015		4	19	62	32	7	1	0		3
7/2/2015		4	19	62	32	7	1	0	:	3
7/3/2015		4	8	61	32	7	l .	0		3
7/4/2015		4	19	62	32	7	1	0		3
7/5/2015		4	9	62	32	7	1	0	3	3
7/6/2015		4	18	61	31	7	1	2	3	3
7/7/2015		4	18	61	31	7	1	0	3	3
7/8/2015		4	18	61	31	7	1	16	:	3 turn off p u
7/9/2015		4	17	60	0	7	ī	24	(0
7/10/2015		9	1	104	0	7	1	14	(0
7/11/2015		9	90	103	3	7	1	0	(0
7/12/2015		7	15	88	28	7	1	0	(0
7/13/2015		5	8	71	42	7	1	0	(9 restarted pu
7/14/2015		4	19	62	36	7	1	0	3	3
7/15/2015		5	i0	63	35	7	I	0	:	3
7/16/2015		4	18	61	33	7	1	0	:	3
7/17/2015		4	18	61	33	7	1	0	:	3
7/18/2015		4	18	61	33	7	1	0	:	3
7/19/2015		4	18	61	33	7	1	0	:	3
7/20/2015		4	17	60	33	7	1	0	:	3
7/21/2015		5	51	64	27	7	1	2	:	3
7/22/2015		4	17	60	33	7	1	0		3
7/23/2015		4	17	60	33	7	l	0		3
7/24/2015		4	17	60	31	7	1	0	:	3
7/25/2015		4	17	60	32	7	1	0	:	3
7/26/2015		4	17	60	32	7	ı	0	;	3
7/27/2015		4	16	59	31	7	1	0		3
7/28/2015		4	16	59	31	7	1	0		3
7/29/2015		4	16	59	31	7	1	0		3
7/30/2015			16	59	31	7	l	0	;	3
7/31/2015		_	16	59	31	7	1	0	:	3
Γotal					905				7:	Q

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W384 Zwevgardu01-24 i

St. Francis

St. Francis

None

August-15

•	Tubing	Casing						HRS	Water	- 1	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE		DOWN	BBLS		(Maximum length 110 characters)
8/1/2015	-		7	50	31	7	1	C)	2	<u>-</u>
8/2/2015		4	8 (51	31	7	1	0)	2	
8/3/2015		4	6 :	59	31	7	1	0)	2	
8/4/2015		4	6 :	59	31	7	1	0)	2	
8/5/2015		4	6	59	31	7	1	0)	2	
8/6/2015		4	6 :	59	31	7	1	0)	2	
8/7/2015		4	6 :	59	31	7	1	0)	2	
8/8/2015		4	7 (60	31	7	1	0)	2	
8/9/2015		4	8 (51	30	7	1	0)	2	
8/10/2015		5	0 (53	30	7	1	0		2	
8/11/2015		5	il (54	30	7	1	0)	2	
8/12/2015		5	1 (54	30	7	1	C)	2	
8/13/2015		:	i2 (55	29	7	1	C)	2	
8/14/2015		5	i2 (55	29	7	1	0)	2	
8/15/2015		5	2 (65	29	7	l	C)	2	
8/16/2015			53	56	29	7	1	()	2	
8/17/2015		4	3	56	29	7	1	()	2	
8/18/2015		4	52	55	29	7	1	()	2	
8/19/2015			52	65	26	7	1	()	2	
8/20/2015			52	65	29	7	1	()	2	
8/21/2015		:	52	65	29	7	1	()	2	
8/22/2015		:	52	65	29	7	1	()	2	
8/23/2015			52	65	29	7	1	()	2	
8/24/2015		5	52	65	29	7	ı	()	2	
8/25/2015		5	5	68	29	7	1	C)	2	
8/26/2015		:	5 (68	29	7	1	0)	2	
8/27/2015			55	68	29	7	1	()	2	
8/28/2015			55	68	29	7	1	()	2	
8/29/2015		:	55	68	29	7	1	()	2	
8/30/2015		:	55	68	29	7	Ì	4	4	2	
8/31/2015		_ :	55	68	29	7	1		_	2	
Total					916					62	

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Zwevgaret(011-24

St. Francis

St. Francis

None

September-15

FloBoss

FloBoss			_								
	Tubing	Casing					HRS		Water		REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOW	'N	BBL\$		(Maximum length 110 characters)
9/1/2015		48	61		24	7	1	0		2	-
9/2/2015		47	60)	33	7	1	0		2	
9/3/2015		50	63	1	31	7	ĺ	0		2	
9/4/2015		59	72	!	28	7	1	0		2	
9/5/2015		59	72	!	28	7	1	0		2	
9/6/2015		59	72	!	28	7	1	0		2	
9/7/2015		57	70)	29	7	1	0		2	
9/8/2015		57	70)	29	7	1	0		2	
9/9/2015		49	62	;	28	7	1	0		2	
9/10/2015		49	62	!	28	7	1	0		2	
9/11/2015		49	62	<u> </u>	28	7	1	0		2	
9/12/2015		49			28	7	1	0		2	
9/13/2015		49			28	7	ſ	0		2	
9/14/2015		49	62	!	28	7	1	0		2	
9/15/2015		49	62	!	28	7	1	0		2	
9/16/2015		49	62	2	28	7	1	0		2	
9/17/2015		49	62	?	28	7	1	0		2	
9/18/2015		49	62	2	28	7	1	0		2	
9/19/2015		49	62	2	28	7	1	0		2	
9/20/2015		49	62	!	28	7	1	0		2	
9/21/2015		49	62	<u>!</u>	28	7	1	0		2	
9/22/2015		49	62	<u>!</u>	28	7	1	0		2	
9/23/2015		49	62	?	28	7	1	0		2	
9/24/2015		49	62	?	28	7	1	0		2	
9/25/2015		49	62	!	28	7	1	0		2	
9/26/2015		49	62	2	28	7	1	0		2	
9/27/2015		49	62	:	28	7	1	0		2	
9/28/2015		49	62	:	28	7	1	0		2	
9/29/2015		49	_		28	7	1	0		2	
9/30/2015		49	62	!	28	7	1	0		2	
10/1/2015			13	1							

Total 846 60

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