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

Type Test	t:	act		0	See Instruct	tions on Rev	verse Side	9)					
Op	en Flow			Test Date	Test Date:				API No. 15				
De	liverabilty								3-21257-00 <b>0</b>	Ø			
Company		urces, Inc.	-		Lease Zweygardt					22-19	Well Number 22-19		
County Location S Cheyenne SENW				Section 19					(W)		Acres Attributed 80		
Field Cherry C	reek			Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.					
Completic 11/11/10				Plug Back 1475'	Plug Back Total Depth 1475'				Set at				
Casing Si 4 1/2"	ize	Weight 10.5#		Internal E	Internal Diameter Set at 6.366 1513'			Perfo 129	rations 6'	To 1326'			
Tubing Si	ize	Weight		Internal E	Internal Diameter Set at			Perfo	orations	То	_		
Type Com Single (				Type Fluid Dry Ga	d Production	1	_	Pump Un	nit or Traveling	Plunger? Yes	(No)		
	Thru (A	nnulus / Tubing	)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gr .6	avity - G <sub>g</sub>		
Vertical D		<del>-</del>			Press	sure Taps		_		-	Run) (Prover)	Size	
1525'	-				Flan					2"		_	
Pressure	Buildup:	Shut in	2	<sub>0</sub> _15 <sub>_at</sub> _5:	:00	(AM)(PM)	Taken_7-			15 at 5:15	(AM <b>(</b> (F	M)	
Well on L		Started 7-10	2	0 15 at 5	15 at 5:15 (AM) (PM) Taken 7-				20	15 at 5:30	(AM)(F	(M°	
					OBSERVE	D SURFACE	_			Duration of Shut-	in 24	Hours	
Static / Dynamic Property	Dynamic Size Prover Pressure in		Differential in	Flowing Weil Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>p</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produ (Barrels)		
Shut-In		psig (Pm)	Inches H <sub>2</sub> 0		<del></del> _	120	psia 134.4	psig	psia	<del>_</del>		_	
Flow		1				63	77.4		24			$\Box$	
		<del></del>	_ <del>-</del>		FLOW STR	EAM ATTRI	BUTES	<u> </u>	<u> </u>	<u> </u>			
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofq		Circle one:  Meter or over Pressure psia  Press Extension  P <sub>m</sub> × h		Fact	Gravity Factor F		Flowing Devia Factor F <sub>p</sub>		Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	et/ Flow Gra G	uid vity	
	_						_		25				
<u> </u>				(OPEN EL I		ERABILITY)	CALCUI	ATIONS					
(P <sub>c</sub> ) <sup>2</sup> =	;	(P <sub>w</sub> ) <sup>2</sup> = _	:	P <sub>d</sub> =	* -	•	- 14.4) +		:	(P <sub>a</sub> )	2 = 0.207 2 =	_	
(P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide	P <sub>c</sub> <sup>2</sup> -P <sub>4</sub> <sup>2</sup>	Backpres Slop Ass	ssure Curve e = "n" or	, , ,	LOG	Antilog	Open Flor Deliverabil Equals R x A (Mcfd)	lity Intilog	
<del></del>	-		ivided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	by:	<u> </u>	Jianu	ard Slope	-	-		<del>                                     </del>	$\dashv$	
Open Flor	w		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia		
The u	undersigne	ed authority, on	behalf of the	Company, s	states that h	e is duly au				ort and that he ha			
the facts s	tated ther	ein, and that sa	id report is true	and correc	t. Executed	this the 18	3	day of _	December		, 20 .15	<u> </u>	
		1401			KCC-V	VICHIT	<u>'A</u>	Un	naul	Moil	ay_		
		Witness (if			APR 0	7 2016-			Che	cked by			
		ror Commi	991011		•	•			One				

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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 22-19  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
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
KCC WICHITA Signature:

## 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.

W2739 Zweygdroi 22-19 ,

St. Francis

St. Francis

Flow

July-15

FloBoss

FloBoss						
	Tubing	Casing			HRS Water	REMARKS
DATE	PSI	PSI S	TATIC MCF	SPM	CYCLE DOWN BBLS	(Maximum length 110 characters)
7/1/2015		65	78	25	0	
7/2/2015		64	77	25	0	
7/3/2015		64	77	25	0	
7/4/2015		65	78	25	0	
7/5/2015		65	78	25	0	
7/6/2015		63	76	25	2	
7/7/2015		63	76	25	0	
7/8/2015		63	76	25	16	
7/9/2015		120	133	0	24	
7/10/2015		173	186	0	14	
7/11/2015		123	136	30	0	
7/12/2015		88	101	30	0	
7/13/2015		74	87	27	0	
7/14/2015		53	66	27	0	
7/15/2015		66	79	26	0	
7/16/2015		65	78	26	0	
7/17/2015		65	78	26	0	
7/18/2015		64	77	26	0	
7/19/2015		64	77	26	0	
7/20/2015		64	77	26	0	
7/21/2015		67	80	26	2	
7/22/2015		63	76	26	0	
7/23/2015		63	76	26	0	
7/24/2015		63	76	26	0	
7/25/2015		63	76	26	0	
7/26/2015		63	76	26	0	
7/27/2015		62	75	25	0	
7/28/2015		62	75	25	0	
7/29/2015		62	75	25	0	
7/30/2015		62	75	25	0	
7/31/2015		62	75	25	_ 0	

Total 755 0

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W2739 Zweygardi 22-19.

St. Francis

St. Francis

Flow

August-15

FloBoss

FloBoss								
	Tubing	Casing				HRS	Water	REMARKS
DATE	PSI	_PSIST	ATIC MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2015		63	76	25			0	
8/2/2015		63	76	25			0	
8/3/2015		64	77	25			0	
8/4/2015		63	76	25			0	
8/5/2015		63	76	25			0	
8/6/2015		63	76	25			0	
8/7/2015		63	76	25			0	
8/8/2015		64	77	25			0	
8/9/2015		64	77	25			0	
8/10/2015		66	79	25			0	
8/11/2015		67	80	25			0	
8/12/2015		67	80	25			0	
8/13/2015		68	81	24			0	
8/14/2015		67	80	24			0	
8/15/2015		68	81	24			0	
8/16/2015		68	18	24			0	
8/17/2015		68	18	24			0	
8/18/2015		67	80	24			0	
8/19/2015		66	79	24			0	
8/20/2015		67	80	24			0	
8/21/2015		67	80	24			0	
8/22/2015		67	80	24			0	
8/23/2015		67	80	24			0	
8/24/2015		66	79	24			0	
8/25/2015		73	86	24			0	
8/26/2015		73	86	24			0	
8/27/2015		73	86	24			0	
8/28/2015		73	86	24			0	
8/29/2015		73	86	24			0	
8/30/2015		73	86	24			4	
8/31/2015		73	86	24			0	

0 Total 756

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W2739

Zweygardt 22-19

St. Francis

St. Francis

Flow

September-15

FloBoss

FloBoss									T
	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI		MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2015		62	-					0	
9/2/2015		62			4			0	
9/3/2015		64		2	4			0	
9/4/2015		64	77	2	4			0	
9/5/2015		72			4			0	
9/6/2015		72	85	2	4			0	
9/7/2015		70			4			0	
9/8/2015		70	83	2	4			0	
9/9/2015		64	77	2	4			0	
9/10/2015		64	. 77	2	4			0	
9/11/2015		64	77	2	4			0	
9/12/2015		64	77	2	4			0	
9/13/2015		64	77	2	4			0	
9/14/2015		64	77	2	4			0	
9/15/2015		64	. 77	2	4			0	
9/16/2015		64	77	2	4			0	
9/17/2015		64	77	2	4			0	
9/18/2015		64	. 77	2	4			0	
9/19/2015		64	. 77	2	4			0	
9/20/2015		64	77	2	4			0	
9/21/2015		64	77	2	4			0	
9/22/2015		64	77	2	4			0	
9/23/2015		64	17	2	4			0	
9/24/2015		64	77	2	4			0	
9/25/2015		64	. 77	2	4			0	
9/26/2015		64	. 77	2	4			0	
9/27/2015		64	. 77	2	4			0	
9/28/2015		64	77	2	4			0	
9/29/2015		64	. 77	2				0	
9/30/2015		64		2				0	
10/1/2015			13					0	

Total 720

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