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

Type Test	t;			(	See Instruct	ions on Re	verse Side	9)					
Op	en Flow	Flow ASI No. 45											
De	Deliverability Test Date: 6/22/14				API No. 15 023-21254-00 <b>00</b>								
Company		ources, Inc.				Lease Zweyga	rdt				12-19	Well Nur	nber
County Location SWNW			Section 19				RNG (E/W) 40W			Acres Attributed 80			
Field Cherry C	Creek				<del></del>				Gas Gathering Connection Branch Systems Inc.				
Completion 9/23/201				Plug Bac 1470'	3				Set at	_		-	
Casing Si 4 1/2"	ize	Weight 10.5#	1	Internal E	Internal Diameter Set at 6.366 1509'			Perforations 1304'			то 1334'		
Tubing Si NONE	ze	Weigh	!	Internal E	Internal Diameter Set at			Perforations			То		
Type Con				Type Flui	d Production	1		Pump Ur	nit or Traveling	Plunge	er? Yes	(No)	
	Thru (A	nnulus / Tubing	)					% Nitrogen			Gas Gravity - G		
Vertical D				<del></del>	Press	sure Taps	<u> </u>					Run) (Pre	over) Size
1550'					Flang	-					2"		
Pressure	Buildup:			20 14 at 5:20								(/	M(PM)
Well on L	ine:	Started <u>6-22</u>	<u>2</u> 20	0 <u>14</u> at <u>5</u>	:30	(AM) (PM)	)Taken <u>6-</u>	23	20	at	5:45	(/	AM)(PM)
			- <del></del>		OBSERVE	D SURFAC	DATA			Duratio	on of Shut-	<sub>in_</sub> 360	Hours
Static / Orifice Circle one:  Dynamic Size Property (inches)  Circle one:  Meter Prover Pressure		Pressure Differential re in	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure $(P_w) \text{ or } (P_i) \text{ or } (P_o)$		Tubing Wellhead Pressure $(P_w)$ or $(P_l)$ or $(P_o)$		Duration (Hours)		Produced arrels)	
Property Shut-In		psig (Pm)	Inches H <sub>2</sub> 0			psig 223	psia 237.4	psig	psia			-	
Flow						64	78.4			360			
					FLOW STR	EAM ATTR	IBUTES						<del>-</del>
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension  P <sub>m</sub> xh	ension Factor		Flowing emperature Factor F <sub>It</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	v	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
		_							13	T.	<u> </u>		_
		<u> </u>		(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS			(P )	²= 0.20	 7
(P <sub>c</sub> ) <sup>2</sup> =	:			P <sub>d</sub> =		<u>6 (F</u>	) <sub>c</sub> - 14.4) +	14.4 =	:		(P <sub>a</sub> )		
$ \begin{array}{c cccc} (P_o)^2 - (P_g)^2 & (P_c)^2 - (P_w)^2 \\ \text{or} & (P_c)^2 - (P_a)^2 \\ \end{array} $		1. P <sub>c</sub> <sup>2</sup> - P <sub>c</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. 2 - P. 2		Backpressure Curve Slope ≈ "n" Or Assigned		n x LOG		A	ntilog	Deliv Equals	en Flow verability R x Antilog Vord)	
			fivided by: $P_c^2 - P_w^2$	by:	<u></u>	Stand	ard Slope			_		<del>                                     </del>	
Open Flor	w		Mcfd @ 14.	65 ps <u>ia</u>		Deliverat	ility			Mcfd @	14.65 ps	ia	
The t	undersign	ed authority, or	behalf of the	Company, s	tates that h	e is duly au	ıthorized t	o make th	ne above repo	ort and	that he ha	s knowl	edge of
the facts s	tated ther	rein, and that sa	id report is true	and correc	t. Executed	this the _1	2	day of _D	ecember			, 2	o <u>14</u> .
			<del></del>	[/ytik**	Receiv	ed		ZU	null	1	Ulli	ill	12
		Witness (if	any)		CORPORATIO		IN /		For	Company		J	•
		For Comm	ssion		FEB 25	2015			Che	cked by			

CONSERVATION DIVISION WICHITA, KS

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 12-19
gas well on the grounds that said well:
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.
Received KANSAS CORPORATION COMMISSION SIGNATURE:  Production Assistant  CONSERVATION DIVISION WICHITA, KS

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.

W2733

Zweygardt 12-19

St. Francis

St. Francis

Flow

June-1#

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	65				
6/2/2013	71	84			
6/3/2013	64		15	0	
6/4/2013	80				
6/5/2013	61	74	16	0	
6/6/2013	62				
6/7/2013	176				
6/8/2013	189	202	0	24	
6/9/2013	201	214	0	24	
6/10/2013	213				
6/11/201 <b>B</b>	222				
6/12/201B	223				
6/13/2013	220	233	0	24	
6/14/2018	218	231	0	24	
6/15/2013	215	228	0	24	
6/16/2013	213	226	0	24	
6/17/2013	210	223	0	24	
6/18/201	206	219	0	24	
6/19/2013	203	216	0	24	
6/20/2013	201	214	0	24	
6/21/2013	194	207	0	24	
6/22/2013	194	207	0	24	
6/23/2013	146	159	23	5	
6/24/2013	127	140	36	0	
6/25/2013	117	130	25	0	
6/26/2013	104	117	21	0	
6/27/2013	98	111	21	0	
6/28/2013	75	88	20	0	
6/29/2013	67	80	18	0	
6/30/2013	69	82	18	0	
7/1/2013				0	

Total 279

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FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS

W2733

Zweygardt 12-19

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	69		17		
7/2/2014	67	80	17	0	
7/3/2014	66	79	16	0	
7/4/2014	66	79	16	0	
7/5/2014	69	82	16	0	
7/6/2014	69	82	16	0	
7/7/2014	77	90	15	0	
7/8/2014	68	81	15	0	
7/9/2014	68		15	0	
7/10/2014	69		15	0	
7/11/2014	73		15	0	
7/12/2014	71		15	0	
7/13/2014	71	84	14	0	
7/14/2014	72	85	14	0	
7/15/2014	63	76	15	0	
7/16/2014	66	79	15	0	
7/17/2014	65	78	15	0	
7/18/2014	66	79	15	0	
7/19/2014	63	76	15	0	
7/20/2014	65	78	14	0	
7/21/2014	142	155	14	0	
7/22/2014	149	162	4		
7/23/2014	90	103			
7/24/2014	61	74	15	3	
7/25/2014	63	76	15	4	
7/26/2014	62	75		0	
7/27/2014	63			0	
7/28/2014	63	76		0	
7/29/2014	64	77	13	0	
7/30/2014	63	76	13	0	
7/31/2014	68	81	13	0	

Total 449

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FEB 2 5 2015

W2733

Zweygardt 12-19

St. Francis

St. Francis

Flow

August-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
8/1/2014	63	76	13	0	
8/2/2014	63	76	13	0	
8/3/2014	63	76	13	0	
8/4/2014	64	77	13	0	
8/5/2014	63	76	13	0	
8/6/2014	65	78	13	0	
8/7/2014	64	77	13	0	
8/8/2014	65	78	13	0	
8/9/2014	66	79	13	0	
8/10/2014	67	80	13	0	
8/11/2014	73	86	13	0	
8/12/2014	62	75	13	0	
8/13/2014	63	76	13	0	
8/14/2014	62	75	13	0	
8/15/2014	69	82	13	3	
8/16/2014	66	79	13	0	
8/17/2014	68	81	13	0	
8/18/2014	67	80	13	0	
8/19/2014	73	86	13	2	
8/20/2014	66	79	13	0	
8/21/2014	64	77	13	0	
8/22/2014	76	89	13	0	
8/23/2014	61	74	13	0	
8/24/2014	63	76	12	0	
8/25/2014	80	93	12	0	
8/26/2014	64	77	12	0	
8/27/2014	73	86	12	0	
8/28/2014	96	109	12	0	
8/29/2014	61	74	12	5	•
8/30/2014	60	73	12	0	
8/31/2014	71	84	<u>1</u> 2	_ 0	

Total 395

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