## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test			ast.		(	See Instruc	ctions on Re	verse Side	9)					
Deliverabilty						Test Date: API No. 15								
		y			6/7/201	3			023	3-21254 <b>-</b> 00 <b>0</b>	0			
Company Rosewo		soui	rces, Inc.				Lease Zweyga	rdt			12-19	Well Number		
County Location Cheyenne SWNW				Section 19				RNG (E 40W	(W)		Acres Attributed 80			
Field Cherry (	Creek					Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.				
Completi 9/23/201		Э			Plug Bac <b>1470'</b>	· ·-9 - ·-·· ·				Set at				
Casing S 4 1/2"	Size		Weigh 10.5#		Internal I 6.366	Internal Diameter Set 6.366 150			Perfo <b>130</b>	rations <b>4'</b>	то 1334'			
Tubing S NONE	Size		Weigl	nt	Internal [	Diameter	Set a	at	Perfo	rations	То			
Type Cor Single (					Type Flui Dry Ga	d Productio	n		Pump U	nit or Traveling	Plunger? Yes	(No)		
Producing	_	(Anr	ulus / Tubin	g)	% C	arbon Diox	ide		% Nitrog	jen	Gas Gr .6	ravity - G <sub>g</sub>		
Vertical E	Depth(H	)				Pres	ssure Taps				•	Run) (Prover) Size		
1550'					40 5	Flan	<del></del>				2"			
Pressure	Buildu		Shut in 6-6				(AM)(PM)				13 at 5:30	(AM((PM))		
Well on L	₋ine:	;	Started 6-7	2	0 13 at 5	:30	(AM) (PM)	Taken 6-	8	20	13 <sub>at</sub> 5:45	(AM)(PM)		
						OBSERVE	D SURFAC	E DATA	_		Duration of Shut-	in 24 Hours		
Static / Dynamic Property	Static / Orifice  Dynamic Size  Property (inches)		Circle one:  Meter  Prover Press	Meter Differential in		Flowing Well Head Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Tubing ead Pressure $(P_t)$ or $(P_c)$	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	<u> </u>	•	psig (Pm)	Inches H <sub>2</sub> 0			213	psia 227.4	psig	psia				
Flow							67	81.4			24			
						FLOW STE	REAM ATTR	IBUTES						
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient ,)		Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fact F <sub>g</sub>	tor	Flowing Temperature Factor F <sub>f1</sub>	Fa	lation ctor	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity		
										17				
(P <sub>c</sub> )² =		:	(P <sub>w</sub> ) <sup>2</sup> =	: ;	(OPEN FLO		<b>/ERABILITY</b> % (F	) CALCUL <sup>2</sup> 14.4) +		:	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> = 0.207		
(P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>a</sub> ) <sup>2</sup>	_	<sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpre Slop As	ssure Curve be = "n" or signed ard Slope	n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
											'			
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia		
			-		• •		-			-	ort and that he ha	as knowledge of		
the facts si	tated th	erei	n, and that sa	aid report is true			hthis the 2		day of $\frac{1}{2}$	ovember	Mostin	, 20 13 0 0 1 1		
			Witness (	if any)	D	EC 26	2013	$\rightarrow$	<i>J</i>	For	Company			
			For Comm	nission	CON	ISERVATION WICHITA				Che	cked 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 12-19
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
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: _11/21/13
$\cdot$
RECEIVED Signature: Saul Matty of
KANSAS CORPORATION COMMISSION
DEC 2 6 2013  Title: 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-13

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/2013	65	78	18		
6/2/2013	71	84	17		
6/3/2013	68	81	17		
6/4/2013	65	78			
6/5/2013	72	85	17		
6/6/2013	62	75	17		si for state test - cp 84
6/7/2013	135	148	0	24	reopened - cp 213
6/8/2013	68	81	28		
6/9/2013	. 71	84	19		
6/10/2013	94	107	19		
6/11/2013	89	102	17		
6/12/2013	85	98	17		
6/13/2013	69	82	17		
6/14/2013	69	82	18		
6/15/2013	73	86	18		
6/16/2013	74	87	18		
6/17/2013	70	83	18		
6/18/2013	65	78	17		
6/19/2013	61	74	17		
6/20/2013	65	78	17		
6/21/2013	71	84	17		
6/22/2013	84	97	17		
6/23/2013	90	103	17		
6/24/2013	86	99	17		
6/25/2013	90	103	17		
6/26/2013	88	101	17		
6/27/2013	82	95	17		
6/28/2013	65	78	17		
6/29/2013	65	78	17		
6/30/2013	64	77	16		
7/1/2013					

Total 512

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CONSERVATION DIVISION WICHITA, KS W2733 Zweygardt 12-19 St. Francis

St. Francis

Flow

July-13

FloBoss

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN	1	(Maximum length 110 characters)
7/1/2013	67	81		17		
7/2/2013	67	80		17		
7/3/2013	70	83		17		
7/4/2013	69	82		17		
7/5/2013	69			17		
7/6/2013	68	81		17		
7/7/2013	78	91		17		
7/8/2013	77	90		16		
7/9/2013	76	89		16		
7/10/2013	72	85		16		
7/11/2013	75	88		16		
7/12/2013	80	93		16		
7/13/2013	84	97		16	2.5	
7/14/2013	86	99		16		
7/15/2013	69	82		16		
7/16/2013	66	79		16		
7/17/2013	63	76		15		
7/18/2013	90	103		15		
7/19/2013	81	94		15		
7/20/2013	83	96		15		
7/21/2013	84	97		15		
7/22/2013	80	93		15		
7/23/2013	77	90		15		
7/24/2013	84	97		15		
7/25/2013	87	100		5		
7/26/2013	77	90	1	5		
7/27/2013	68	81	]	5		
7/28/2013	70	83		15		
7/29/2013	68			5		
7/30/2013	93			5	3,5	
7/31/2013	117	130		4	5.5	

Total 487

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CONSERVATION DIVISION WICHITA, KS W2733

Zweygardt 12-19

St. Francis

St. Francis

Flow

August-13

FloBoss

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN	(Maximum length 110 characters)
8/1/2013	88	101		16		
8/2/2013	87	90		16		
8/3/2013	83	96		16		
8/4/2013	82	95		16		
8/5/2013	77	90		16		
8/6/2013	67	80		16		
8/7/2013	64	77		16		
8/8/2013	66	79		16		
8/9/2013	69	82		16		
8/10/2013	68			16		
8/11/2013	65	78		15		
8/12/2013	65	78		16		
8/13/2013	65	78		16		
8/14/2013	67	80		15		
8/15/2013	66	79		15	0.5	
8/16/2013	76	89		15		
8/17/2013	75	88		15		
8/18/2013	76	89		15		
8/19/2013	77	90		15	1.5	
8/20/2013	98	111		15	1	
8/21/2013	94	107		15		
8/22/2013	98	111		15	5	
8/23/2013	81	94		15		
8/24/2013	91	104		15	1	
8/25/2013	95	108		15	1	
8/26/2013	69	82		15		
8/27/2013	65	78		15		
8/28/2013	63	76		15		
8/29/2013	95	108		15	1	
8/30/2013	94	107		15		
8/31/2013	95	108		15		

Total 477

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