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

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Type Test	t:	AFT		(	See Instruct	tions on Re	verse Side	)				
□ Ор	en Flow	ROT		Tost Date	.,			ÁΒ	l No. 15			
De	liverabilty			Test Date 6/22/14	);				1 NO. 15 3-20607-00 <b>€</b>	0		
Company		urces, Inc.			·	Lease Zweyga	rdt			2-	Well 24	Number
County		Locati	on	Section		TWP		RNG (E	:/W)		Acre	s Attributed
Cheyenr	ne	NE NE	/4	24		38		41W			80	
Field Cherry Creek				Reservoir Niobrara			Gas Gathering Branch Sys					
Completion 5/4/2005				Plug Bac 1425'	k Total Dept	th	Packer Se					
Casing Size Weight 4 1/2" 10.5#			Internal D 4.052	Diameter	Set at 1425'		Perfo 120	orations 12'	To 12	236'		
Tubing Si	ize	Weigh	t	Internal D	Diameter	Set at		Perfo	orations	To	1	
Type Con				Type Flui	d Production	า			nit or Traveling ing Unit	Plunger? (	Yes / N	0
	g Thru (A	nnulus / Tubing	9)		arbon Dioxi	de		% Nitrog		Gá	as Gravity	- G <sub>g</sub>
Vertical D			<del></del>		Pres	sure Taps						(Prover) Size
1236'	zepui(i i)				Flan	•				2'	·	(1 10101) 0120
Pressure	Buildup:	Shut in 6-7	2	0 14 at 9		(AM)(PM)			20			_(AM)PM)
Well on L	.ine:	Started 6-2	22	0 14 at 1	0:00	(AM)(PM)	Taken 6-	23	20	14 at 10	:45	(AM) (PM)
					OBSERVE	D SURFAC	E DATA			Duration of	Shut-in_3	60 Hours
Static / Dynamic	Dynamic Size		(Prover Pressure) in i		Flowing Well Head Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		, L	iquid Produced (Barrels)
Property Shut-In	(inches)	psig (Pm)	Inches H₂0	<u> </u>		psig 149	psia 163.4	psig	psia		_	<u> </u>
Flow		<del>  _</del>	<del>-</del>	_		60	74.4		<del>- </del>	360		
	<u> </u>				FLOW STR	EAM ATTR	IBUTES	.1	<del>_</del>			<u> </u>
Coefficcient		Circle one:  Meter or  Prover Pressure psia  Press Extension  ✓ P <sub>m</sub> x ħ		Fact	Gravity Factor F <sub>g</sub>		Flowing Devi emperature Fa Factor F		Metered Flow R (Mcfd)	ow GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
									21			
			_	(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		_	$(P_a)^2 =$	0.207
(P <sub>c</sub> ) <sup>2</sup> ≈	<del></del> :	(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> ==	<u> </u>	% (F	<sup>2</sup> 14. <u>4)</u> +	14.4 =	<del></del> :_	<del></del>	(P <sub>d</sub> ) <sup>2</sup> =	
(P <sub>e</sub> ) <sup>2</sup> - (I or (P <sub>e</sub> ) <sup>2</sup> - (I		(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.	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slor As:	ssure Curve pe = "n" - or signed	l n x	LOG	Antilog		Open Flow Deliverability uals R x Antilog (Mcfd)
-	_	- +	divided by: $P_c^2 - P_w$	2 by:	<u></u>	Stano	ard Slope				-	
Open Flo	w		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.6	65 psia	
	-	•	n behalf of the			· ·				ort and that	he has kr	
the facts s	tated ther	ein, and that sa	aid report is true	e and correc			2	day of _	December	11 B		_, <sub>20</sub> <u>14</u>
		Witness (i	if any)	KAN	ISAS CORPOR	eived ATION COMMI	esion	M	MILLL	Company	Ulu	cef_
		For Comm			FEB 2	2 5 2015			Che	ocked by		
					CONCEDUAT	TON DIVIDIO						

	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
and that the foreg	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
of equipment insta	allation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby requ	est a one-year exemption from open flow testing for the Zweygardt 2-24
gas well on the gr	rounds that said well:
(Check	cone)
	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
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	y to corroborate this claim for exemption from testing.
Date: 12/12/14	
<u></u>	
	11 11 120 45
KANS	Received Signature: Lunul Matting
	FEB 2 5 2015 Title: Production Assistant
C	CONSERVATION DIVISION WICHITA, KS
	AMPELITY IN

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.

W386

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Zweygardt 02-24

St. Francis

St. Francis

None

June-134

FloBoss

	Casing			]	HRS	REMARKS
DATE	PSI	STATIC	MCF	]	DOWN	(Maximum length 110 characters)
6/1/20134	56	69		17	0	<del></del>
6/2/2013	60			16	0	
6/3/2013	76	89		17	0	turn on pumping unit
6/4/2013	67	80		16	0	
6/5/201 <b>B</b>	50			16	0	
6/6/2013	53	66		16	0	turn off pumping unit
6/7/2013	132	145		9	9	
6/8/2013	136	149		0	24	
6/9/2013	139	152		0	24	
6/10/2013	140	153		0	24	
6/11/2013	142	155		0	24	
6/12/2013	143	156		0	24	
6/13/2013	144			0	24	
6/14/2013	144	157		0	24	
6/15/2013	144	157		0	24	
6/16/2013	145	158		0	24	
6/17/2013	146	159		0	24	
6/18/2013	147	160		0	24	
6/19/2013	147	160		0	24	
6/20/2013	148	161		0	24	
6/21/2013	149	162		0	24	
6/22/2013	149	162		0	24	
6/23/2013	119	132		22	5	
6/24/2013	110	123		7	0	
6/25/2013	104	117		26	0	
6/26/2013	92	105		23	0	
6/27/2013	86	99		21	0	
6/28/2013	57			21	0	
6/29/2013	56			20		started pumping unit
6/30/201\$	57	70		20	0	very little water, put on hand
7/1/2013					0	

Total 267

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

W386

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Zweygardt 02-24

St. Francis

St. Francis

None

July-14

FloBoss

Total

FloBoss	Cogina			C Weter	—-т	DEMARKS
n 1 mp	Casing	am i mia i i am	HR			REMARKS
DATE	PSI	STATIC MCF		WN BBLS		(Maximum length 110 characters)
7/1/2014	57		19	0	0	
7/2/2014	57		18	0	0	
7/3/2014	58	71	18	0	0	
7/4/2014	58		18	0	0	
7/5/2014	58	71	18	0	0	
7/6/2014	58	71	18	0	0	
7/7/2014	68	81	16	0	0	
7/8/2014	59	72	16	0	0	
7/9/2014	60	73	16	0	0	
7/10/2014	61	74	16	0	0	
7/11/2014	64	77	16	0	0	little water, put on auto
7/12/2014	63	76	16	0	4	
7/13/2014	64	77	16	0	5	Pumping gray sludge, shut off
7/14/2014	88	101	16	0	0	
7/15/2014	55	68	16	0	0	
7/16/2014	51	64	16	0	0	
7/17/2014	58	71	16	0	0	
7/18/2014	59	72	16	0	0	
7/19/2014	55	68	16	0	0	
7/20/2014	56	69	13	0	0	
7/21/2014	134	147	13	0	0	
7/22/2014	133	145	1	22	0	
7/23/2014	81	94	16	7	0	
7/24/2014	64	77	16	3	0	
7/25/2014	55	68	16	4	0	
7/26/2014	54	67	14	0	0	started pumping unit
7/27/2014	55	68	16	0	4	- · ·
7/28/2014	55	68	16	0	18	good water
7/29/2014	55		17	0	20	<del>-</del>
7/30/2014	57		17	0	20	
7/31/2014	57		18	0	19	

490

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90

FEB 2 5 2015

W386

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Zweygardt 02-24

St. Francis

St. Francis

None

August-14

FloBoss

	Casing				·	HRS		Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	_	BBLS	(Maximum length 110 characters)
8/1/2014		6 69	) 18	3	8 12		0	16	
8/2/2014	5	5 68	18	3	8 12	;	0	16	5 min BT
8/3/2014	5	5 68	19	)	8 12		0	16	
8/4/2014	5	5 68	19	)	8 12	!	0	16	
8/5/2014	5	7 70	19	)	8 12		0	16	
8/6/2014	5	70	20	)	8 12		0	16	
8/7/2014	5	i9 <b>7</b> 2	2	l :	8 12	}	0	16	
8/8/2014	5	9 72	2	l :	8 12		0	16	
8/9/2014	6	50 73	2.	l :	8 12		0	16	
8/10/2014	$\epsilon$	<b>50 7</b> 3	2.	1	8 12	:	0	16	
8/11/2014	$\epsilon$	57 80	2	l	8 12	;	0	16	
8/12/2014	5	66 69	22	2	8 12		0	16	
8/13/2014	5	70	22	2	8 12		0	16	
8/14/2014	5	5 68	22	2	8 12	ļ	0	16	
8/15/2014	$\epsilon$	<b>51 7</b> 4	24	1	8 12	!	3	16	
8/16/2014	5	9 72	20	5	8 12	!	0	16	
8/17/2014	6	51 <b>7</b> 4	26	5	8 12	;	0	16	
8/18/2014	$\epsilon$	81	. 2:	5	8 12		0	16	
8/19/2014	$\epsilon$	81 81	2:	5	8 12	<b>!</b>	2	16	
8/20/2014	5	9 72	2.	5	8 12	,	0	16	
8/21/2014	5	8 71	. 2:	5	8 12	,	0	16	
8/22/2014	$\epsilon$	<b>51 7</b> 4	2:	5	8 12	!	0	16	
8/23/2014	5	5 68	25	5	8 12		0	16	
8/24/2014	5	70	20	5	8 12		0	16	
8/25/2014	7	2 85	20	5	8 12	;	0	16	
8/26/2014	5	8 71	. 20	5	8 12		0	16	
8/27/2014	6	51 74	20	5	8 12	!	0	16	
8/28/2014	11	.5 128	3 20	5	8 12	!	0	8	
8/29/2014	5	67	24	1	8 12		5	8	
8/30/2014	5	67	2	7	8 12	<b>!</b>	0	16	
8/31/2014	6	57 80	2′	7	8 12		0	16	

Total 718 480

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