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

Type Test		10	KI		(	See Instruct	ions on Re	overse Side	)					
	en Flow				Test Date					No. 15				•
	liverabilt	.y 			5/9/201	1			023	-21265-00 -	00			<del></del>
Company Rosewoo		ourc	es, Inc.				Lease Zweyga	ardt				33-19	Well Nun	nber
County Cheyenr	ne		Locatio NWSE	n	Section 19		TWP 3S		RNG (E/ 40W	W)			Acres At 80	tributed
										Gas Gathering Connection Branch Systems Inc.				
Completion 9/28/201				-	Plug Bac 1507'	k Total Dept	Packer S	et at						
Casing Size Weight II					Internal D 6.366	Internal Diameter Set at 6,366 1546'			Perfor	rations 2'	то <sup>1</sup>			
Tubing Si	ize		Weight		Internal C	Diameter	Perforations			То		-		
Type Con Single (		•	•		Type Flui Dry Ga	d Production	ì		Pump Un	it or Traveling	Plunge	er? Yes	No	<del></del>
- '			ılus / Tubing)		•	arbon Dioxi	de		% Nitrog	en		Gas Gr	avity - G	
Annulus	3											.6		-
Vertical C	Pepth(H)					Presi Flan	sure Taps ge					(Meter	Run) (Pro	over) Size
Pressure	Buildup	: SI	hut in 5-8	. 2	0.11 at 6	:00	(AM)(PM)	Taken 5-	9	20			(/	M (PM)
Well on L	ine:	S	tarted 5-9	2	o <u>11</u> at <u>6</u>	:15	(AM) (PM)	Taken 5-	10	20	11 at	6:40	(#	M)(PM)
						OBSERVE	D SURFAC	E DATA			Duratio	n of Shut-	in 24	Hours
Static / Dynamic	Oynamic Size Prover Pressure in			Flowing Temperature	1 '	Wellhead	sing d Pressure P,) or (P <sub>e</sub> )	Tubing Wellhead Pressure (P_ ) or (P, ) or (Ps)			Duration (Hours)		Produced arrels)	
Property Shut-In	(inche	(inches) psig (Pm) Inches H <sub>2</sub> 0 t t		1	psig 157	psia 171.4	psig	psig psia		· · · · · · · · · · · · · · · · · · ·		+		
Flow							157	171.4			24	<del> </del>		*
·—'		l		1.		FLOW STR	EAM ATT	RIBUTES				· · · · · · · · · · · · · · · · · · ·		<u> </u>
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient _)	N	ircie one: feter or er Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fac F	tor 7	Flowing emperature Factor F <sub>11</sub>	Fa	lation ctor	Metered Flow Fl (Mcfd)	v	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
										37				
	•				(OPEN FL	OW) (DELIV	ERABILITY	Y) CALCUL	ATIONS			(P,	o² = 0.20	7
(P <sub>e</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> )² =_	_ <del>:</del>	P <sub>4</sub> =		% (	(P <sub>c</sub> - 14,4) +	14.4 =	<u>:</u> :		(P <sub>d</sub> )	) <sup>2</sup> =	=
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>2</sub> <sup>2</sup> - P <sub>2</sub> <sup>2</sup> LOG of formula 1. r <sub>2</sub> <sup>2</sup> - P <sub>3</sub> <sup>2</sup> LOG of formula 1. r <sub>2</sub> <sup>2</sup> 2. r <sub>3</sub> d divide P <sub>2</sub> <sup>2</sup> and divide P <sub>3</sub> <sup>2</sup>		P.*- P.*	Backpressure Curve Slope = "n"			n x LOG		Aninou i		en Flow rerability R x Antilog vtcfd)
			d	vided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	by:		Stati	uaru Siope					<del>  '</del>	
														+
Open Flo	w			Mcfd @ 14	65 psla		Delivera	bility			Mcfd @	14.65 ps	ia	
			-							e above repo	ort and	that he ha		•
the facts s	tated th	erein	, and that sai	d report is tru	e and correc	t. Executed	this the		_	ecember	1/		,2	0 11
			Witness (if	any)				4	1Cer		人( Company	Del		CEIVE
			For Commis	sion						Cher	cked by		APF	2 4 -20

exempt status under and that the forego correct to the best of of equipment install	r penalty of perjury under the laws of the state of Kansas that I am authorized to request at Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  Solving pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named. Set a one-year exemption from open flow testing for the Zweygardt 33-19
gas well on the grou	
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature: Zaunu Geulu  Title: Production Assistant

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.

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KCC WICHITA

W2749

Zweygardt 33-19

St. Francis

St. Francis

Flow

May-11

FloBoss

Total

		ng Casing			HRS	Water	REMARKS
DATE	PSI	PSI	STATIC		 CYCLE DOWN	BBLS	(Maximum length 110 characters
5/1/2011		160					
5/2/2011		160		36			
5/3/2011		160	173	36			
5/4/2011		159	172	39			
5/5/2011		158	171	38			
5/6/2011		158	171	39			
5/7/2011		158	171	39			
5/8/2011		166	179	39			
5/9/2011		157	169	0	24		Compressor Down
5/10/2011		164					
5/11/2011		164	177	39			
5/12/2011		160	173	39			
5/13/2011		158	171	39			
5/14/2011		162	170	37			
5/15/2011		157	170	37			
5/16/2011		157	170	37			
5/17/2011		156	169	38			
5/18/2011		156	169	38			
5/19/2011		156	169	37			
5/20/2011		156	169	37			
5/21/2011		156	169	37			
5/22/2011		159	173	38			
5/23/2011		156	169	38			
5/24/2011		156	169	37			
5/25/2011		156	169	37			
5/26/2011		155	168	37			
5/27/2011		156	169	37			
5/28/2011		157	170	37			
5/29/2011		157	170	37			
5/30/2011		157	170				
5/31/2011		157	170				

0

1120

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Zweygardt 33-19

St. Francis

St. Francis

Flow

June-11

FloBoss

Total

		Casing			HR		Water	REMARKS
DATE	PSI	PSI	STATIC		 CYCLEDO	NW	BBLS	(Maximum length 110 characters
6/1/2011		161	174	37				
6/2/2011		160	173	39				
6/3/2011		157	170	39				
6/4/2011		157	170	39				
6/5/2011		157	170	38				
6/6/2011		161	174	38				
6/7/2011		153	166	37				
6/8/2011		159	172	38				
6/9/2011		157	170	37				
6/10/2011		158	171	39				
6/11/2011		157	170	39				
6/12/2011		157	170	39				
6/13/2011		157	170	39				
6/14/2011		157	170	39				
6/15/2011		156	169	39				
6/16/2011		158	171	39				
6/17/2011		157	170	39				
6/18/2011		157	170	39				
6/19/2011		157	170	39				
6/20/2011		157	170	39				
6/21/2011		157	170	39				
6/22/2011		157	170	39				
6/23/2011		161	174	39		1		
6/24/2011		158	171	39				
6/25/2011		157	170	39				
6/26/2011		157	170	39				
6/27/2011		157	170	39				
6/28/2011		157	170	39				
6/29/2011		157	170	39				
6/30/2011		157	170	39				
7/1/2011								

1161

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KCC WICHITA

W2749

Zweygardt 33-19

St. Francis

St. Francis

Flow

July-11

FloBoss

		Casing			HRS	Water	REMARKS
DATE	PSI	PSI	STATIC MC	F SPM	CYCLE DOWN	BBLS	(Maximum length 110 characters
7/1/2011		158		39			-
7/2/2011		100	113	39			
7/3/2011		100	113	39			
7/4/2011		101	114	39			
7/5/2011		158	171	39			
7/6/2011		161	174	39			
7/7/2011		158	171	39			
7/8/2011		158	171	39			
7/9/2011		158	171	39			
7/10/2011		158	171	39			
7/11/2011		162	175	39			
7/12/2011		163	176	39			
7/13/2011		155	168	39	1		
7/14/2011		161	174	39			
7/15/2011		161	111	39			
7/16/2011		161	111	39			
7/17/2011		161	111	39			
7/18/2011		161	174	40			
7/19/2011		159	172	40	2	<u> </u>	
7/20/2011		158	171	39			
7/21/2011		163	176	39			
7/22/2011		157	170	40			
7/23/2011		157	170	40			
7/24/2011		157	170	39			
7/25/2011		157	170	39			
7/26/2011		157	170	39			
7/27/2011		161	174	40			
7/28/2011		158	171	40			
7/29/2011		162	175	40			
7/30/2011		158	171	40			
7/31/2011		157	170	40			

Total

1218

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