KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			4.00		(See Instruct	tions on Rev	erse Side	∍)					
□ Ор	en Flo	w 🎖	\$SL		B-1					l No. de				
De	liverab	ilty			Test Date 6/22/14	9;				No. 15 3-21259-00 0	σ			
Company		sou	rces, Inc.				Lease Zweygar	dt			32-19	Well Number		
County Location Cheyenne SWNE				Section 19	Section TWP			RNG (E 40W	(W)		Acres Attributed 80			
					Reservoir Niobrara				thering Conn Systems In					
Completion Date 9/26/2010					Plug Bac 1471'					Set at				
				Internal D 6.366	Internal Diameter Set at 6.366 1509'			Perfo 128	rations 6'	To 1316'				
Tubing Si	ize		Weigh	t	Internal D	Internal Diameter Set at			Perfo	rations	То	То		
Type Con Single (Type Flui	d Production	n		Pump U	nit or Traveling	Plunger? Yes	No		
Producing		(Anı	nulus / Tubing	1)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gr .6	avity - G _g		
Vertical D		1)		<u>_</u> _		Pres	sure Taps					Run) (Prover) Size		
1525'						Flan	ge				2"			
Pressure	Buildu		Shut in 6-7				(AM)(PM)				14 at 6:10	(AM(PM)		
Well on L	ine:		Started 6-22	2	0 14 at 6	-	(AM) (PM)	Taken 6-	23	20	14 at 6:30	(AM)(PM)		
	_					OBSERVE	D SURFACE	DATA			Duration of Shut-	in 360 Hours		
Static / Dynamic	,		Circle one: Meter Prover Pressu	Pressure Differential re in	Flowing Well Head Temperature Temperature		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _s)		Duration (Hours)	Liquid Produced (Barrels)		
Property	Property (inches)		psig (Pm)	Inches H ₂ 0		t	psig	psia psig		psia				
Shut-In							230	244.4				_		
Flow							61	75.4	<u></u>		360			
						FLOW STR	REAM ATTRI	BUTES		, -				
Plate Coeffiecient (F _b) (F _p)		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	ension Factor		Flowing Temperature Factor F _{tt}		iation actor _{pv}	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	Gravity		
										25				
					(OPEN FL	DW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a)	²= 0.207		
(P _c) ² =		_:	(P _w) ² =				% (P,	· 14.4) +	14.4 =	<u>—:</u>	(P _d)			
(P _c) ² - (F or (P _c) ² - (F		(F	P _c) ² - (P _w) ²	1. P _a ² - P _a ² 2. P _a ² - P _a ²	LOG of formula 1, or 2. and divide	P _c ² - P _w ²	Slope Ass	sure Curve e = "n" or igned	אמ	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				divided by: $P_a^2 - P_w$	by:	<u> </u>	Standa	ird Slope				(514)		
		_												
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia		
		-	•								ort and that he ha	as knowledge of		
the facts s	tated t	herei	in, and that sa	id report is true	e and correc	t. Executed	this the 12	<u>!</u>	day of	December	m A-c-fc	, 20 <u>14</u>		
			Witness (il	any)	KAN	Rece SAS CORPORA	eived ATION COMMISS	SION	Zin	MULL For	MULUI Company	ref		
						FFR-2	5 2015-				alia d hii			
			For Comm	ISSION		• 	. J KUIJ			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 32-19 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 Commissio staff as necessary to corroborate this claim for exemption from testing. Date: 12/12/14	ì
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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.

W2737

Zweygardt 32-19

St. Francis

St. Francis

Flow

June-184

FloBoss

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN _	(Maximum length 110 characters)
6/1/20184	58	71		19	0	
6/2/2018	62	75		19	0	
6/3/2018	57	70		19	0	
6/4/201 3	72			18	0	
6/5/2013	54			18	0	
6/6/2013	55	68		18	0	
6/7/201 8	175	188		11	9	
6/8/2013	188	201		0	24	
6/9/2013	201	214		0	24	
6/10/201 B	213	226		0	24	
6/11/2013	222			0	24	
6/12/2013	227	240		0	24	
6/13/2013	228	241		0	24	
6/14/2013	229	242		0	24	
6/15/2013	229	242		0	24	
6/16/2013	230	243		0	24	
6/17/2013	231	244		0	24	
6/18/2013	230	243		0	24	
6/19/2013	226	239		0	24	
6/20/2013	223	236		0	24	
6/21/2013	222			0	24	
6/22/2013	222			0	24	
6/23/2013	119			0	5	
6/24/2013	110	123		0	0	
6/25/2013	104	117		0	0	
6/26/2013	98			21	0	
6/27/2018	89			29	0	
6/28/2013	60			25	0	
6/29/2013	59			23	0	
6/30/2013	59	72		21	0	
7/1/2013					0	

Total 241

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W2737

Zweygardt 32-19

St. Francis

St. Francis

Flow

July-14

FloBoss

DATE	Casing	CTATIO 34		HRS	Water		REMARKS
DATE	PSI			DOWN	BBLS	10	(Maximum length 110 characters)
7/1/2014	59	72	21	0		19	4
7/2/2014	61	74	20	0			turn on pumping unit
7/3/2014	60	73	22	0		21	
7/4/2014	60	73	22	0		20	
7/5/2014	60	73	19	0		19	6 1.14
7/6/2014	60	73	18	0			6 min bt
7/7/2014	70	83	18	0		21	
7/8/2014	61	74	18	0		2	
7/9/2014	62	75 	18	0		0	
7/10/2014	62	75	17	0		0	c 1 m 1
7/11/2014	65	78	17	0			found off, restarted
7/12/2014	66	79	22	0		19	
7/13/2014	68	81	25	0		20	
7/14/2014	91	104	28	0		19	
7/15/2014	61	74	31	0		21	
7/16/2014	64	77	33	0		20	
7/17/2014	66	79	35	0		19	
7/18/2014	68	81	36	0		20	
7/19/2014	61	74	35	0	2	21	
7/20/2014	61	74	28	0		8	
7/21/2014	134	147	27	0		0	
7/22/2014	134	147	4	22			Restarted
7/23/2014	87	100	17	7		15	
7/24/2014	69	82	32	3		19	
7/25/2014	59	72	26	4	- 2	21	
7/26/2014	59	72	26	0	2	20	
7/27/2014	63	76	31	0		19	
7/28/2014	63	76	35	0		21	
7/29/2014	64	77	37	0		19	
7/30/2014	62	75	37	0	2	21	
7/31/2014	63	76	30	0		20	

Total 785 484

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Zweygardt 32-19

St. Francis

St. Francis

Flow

August-14

FloBoss								
	Casing	_		_		HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2014		74			1 24			21
8/2/2014		2 75			1 24			21
8/3/2014		1 74			1 24			21
8/4/2014	6	1 74	2:	5 4	1 24		0 2	21
8/5/2014	5	7 70) 2	5 4	1 24		0 2	21
8/6/2014	5	8 71	3	0 4	1 24		0 2	21
8/7/2014	5	9 72	2 3-	4 4	1 24		0 2	21
8/8/2014	5	9 72	2 3:	3 4	1 24		0 2	21
8/9/2014	6	1 74	3:	3	1 24		0 2	21
8/10/2014	6	1 74	3	7	1 24		0 2	21
8/11/2014	ϵ	8 81	3	8 4	1 24		0 2	21 6 min BT
8/12/2014	5	6 69	3	8 4	1 24		0 2	21
8/13/2014	5	70) 3	8 4	4 24		0 2	21
8/14/2014	5	6 69	3:	2 4	1 24		0 2	! 1
8/15/2014	6	2 75	3 (0 4	1 24		3 2	.1
8/16/2014	6	0 73	3 2	8 4	1 24		0 2	21
8/17/2014	ϵ	1 74	1 2	7	1 24		0 2	21
8/18/2014	ϵ	0 73		7 4	1 24		0 2	21
8/19/2014	ϵ	8 81	. 2	5 4	1 24		2 2	21
8/20/2014	5	9 72		5 4	1 24		0 2	21
8/21/2014	5	9 72		5 4	1 24		0 2	:I
8/22/2014		1 74		4 4	1 24		0 2	21
8/23/2014	5	5 68		4 4	1 24		0 2	21
8/24/2014	5	7 70) 2	3 4	1 24		0 2	21
8/25/2014	7	2 85	5 2	2 4	1 24		0 2	21
8/26/2014	5	8 71		2 4	1 24		0 2	21
8/27/2014	6	9 82	2 2:	2 4	4 24		0 2	21
8/28/2014	11	5 128	3 2:	2. 4	1 24		0 10	.5
8/29/2014	5	4 67	7 2	1 4	1 24		5 10	.5
8/30/2014	5	4 67	7 2	1 4	1 24			21
8/31/2014		6 79	2	<u>1</u>	1 24		<u>0</u> 2	21
Total			85	4			63	30

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