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

Type Test			A0-		(	See Instruct	ions on Re	verse Side	)				
	en Flo		8127		Test Date	<b>)</b> :			API	No. 15			
De	liverab —	ilty			6/22/14				023	-20562-00	<u> </u>		
Company Rosewo		soui	rces, Inc.				Lease Zimbelı	man			2	Well N -24	lumber
County Location 5			Section 24				RNG (E/	W)		Acres 80	Attributed		
Field					Reservoir Niobrara				hering Conn Systems In				
Completic 9-10-200		е			Plug Bac 1536'	k Total Dept	h		Packer S	Set at			
Casing S 4 1/2"	.5		Internal E 4.052	Diameter	Set at 1536'		Perfo 133	rations 2'	то 1370'				
Tubing S NONE	ize		Weigh	t _	Internal D	Internal Diameter Set at				rations	Te		
Type Cor Single (	(Conv	ent	ional)		Type Flui Dry Ga	d Production	1			nit or Traveling ng Unit		(Yes ) No	
	-	(Anr	rulus / Tubing	1)	% C	arbon Dioxi	de		% Nitrog	en		as Gravity -	· G <sub>g</sub>
Annulus Vertical D		n		<del></del>		Pres	sure Taps				)		Prover) Size
1370'						Flan	<del>-</del>				2		
Pressure	Buildu	p: -	Shut in 6-7	2	0 14 at 9	:05	(AM))(PM)	Taken 6	-14	20	14 at 9:	20	(AM)(PM)
Well on L	ine:		Started 6-22	2 2	0 <u>14</u> at <u>9</u>		(PM)	Taken 6-	23	20	14 at 10	):05	(PM)
					_	OBSERVE	D SURFAC	E DATA			Duration of	Shut-in_30	60 Hours
Static / Dynamic	Dynamic Size		(Prover Pressure) in i		Flowing Well Head Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duratio (Hours	n Liq	uid Produced (Barrels)
Property Shut-In	(inch	es) ——	psig (Pm)	Inches H <sub>2</sub> 0		<u>t</u>	psig_ 229	psia 243.4	psig	psia	_	_	
Flow							50	64.4		<u> </u>	360	0	
						FLOW STR	EAM ATT	RIBUTES					
Coeffied (F <sub>b</sub> ) (F	Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> xh	Grav Fac F	tor	Flowing femperature Factor F <sub>ff</sub>	mperature Factor F		viation Metered Flor actor R F <sub>pv</sub> (Mcfd)		GOR ubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
				_	_				_	33	_   _	_	
					(OPEN FL	OW) (DELIV	ERABILIT\	/) CALCUL	ATIONS	_		(P <sub>a</sub> ) <sup>2</sup> = 0	.207
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> )² =	<u>:</u>	P <sub>d</sub> =		% (	P <sub>o</sub> - 14.4) +	14.4 =	:	<u> </u>	(P <sub>d</sub> ) <sup>2</sup> =	
(P <sub>c</sub> ) <sup>2</sup> - ( or (P <sub>c</sub> ) <sup>2</sup> - (	P <sub>a</sub> )²	(F	P <sub>c</sub> )²- (P <sub>w</sub> )²	Choose formula 1 or 2  1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>\(\psi\)</sub>	Sic	essure Curve ope ≈ "n" or ssigned dard Slope	n x	rod	Antilog	,   ם	Open Flow eliverability als R × Antilog (Mcfd)
													_
Open Flo	w			Mcfd @ 14	.65 psia		Delivera	bility			Mcfd @ 14.	65 psia	
				n behalf of the	e and correc	t. Executed	this the _1	2	_	ne above repo ecember	ort and that		, 20 14
					KAN	SAS CORPORA	TION COMM	SSION	an		1400	the	sep_
			Witness (i	f any)	<u> </u>	FEB 2	5 2015		_		Company		
			For Comm	nission		OUNGEDAY.	ION DIVISIO	N.		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 Zimbelman 2-24 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: 12/12/14
Received  KANSAS CORPORATION COMMISSION  FEB 2 5 2015  CONSERVATION DIVISION  WICHITA, KS  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.

W381 Zimbelman 02-24

St. Francis

St. Francis

None

June-134

	Casing			HRS	REMARKS
DATE	PSI	STATIC M	1CF	DOWN	(Maximum length 110 characters)
6/1/20134	54	67	27	0	
6/2/2013	59	72	25	0	
6/3/2013	57	70	25	0	turn on pumping unit
6/4/2013	72	85	26	0	
6/5/2013	48	61	28	0	
6/6/2013	50	63	29	0	turn off pumping unit
6/7/2013	171	184	19	9	
6/8/2013	187	200	0	24	
6/9/2013	190		0	24	
6/10/2018	195		0	24	
6/11/2013	196		0	24	
6/12/2013	201	214	0	24	
6/13/2013	228	241	0	24	closed line at meter showing flow
6/14/2013	229	242	0	24	
6/15/2013	180	193	0	24	
6/16/2013	158	171	3	24	
6/17/201	158	171	3	24	
6/18/2013	150	163	0	24	
6/19/2013	151	164	0	24	
6/20/2013	152	165	0	24	
6/21/2013	153	166	0	24	
6/22/2013	153		0	24	
6/23/2013	150	163	3	5	
6/24/2013	110	123	7	0	
6/25/2013	103	116	52	0	
6/26/2013	90		42	0	
6/27/2013	82	95	33	0	
6/28/2013	66	79	30	0	
6/29/2013	65	78	29	0	started pumping unit
6/30/2013	54	67	29	0	
7/1/2013				0	

Total 410

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W381 Zimbelman 02-24 St. Francis St. Francis None July-14

	Casing		HF		ter	REMARKS
DATE	PSI	STATIC MCF	DC	OWN BBI	LS	(Maximum length 110 characters)
7/1/2014	54	67	30		24	
7/2/2014	54	67	30	0	25	
7/3/2014	54	67	31	0	26	
7/4/2014	54	67	31	0	25	
7/5/2014	56	69	31	0	26	
7/6/2014	56	69	31	0	25	
7/7/2014	71	84	32	0	24	
7/8/2014	56	69	32	0	25	
7/9/2014	57	70	32	0	26	
7/10/2014	58	71	32	0	25	
7/11/2014	59	72	32	0	24	
7/12/2014	60	73	33	0	25	
7/13/2014	61	74	33	0	26	5 min bt
7/14/2014	71	84	33	0	24	
7/15/2014	50	63	33	0	25	
7/16/2014	50	63	33	0	26	
7/17/2014	54	67	33	0	24	
7/18/2014	53	66	32	0	25	
7/19/2014	53	66	32	0	26	
7/20/2014	53	66	33	0	25	
7/21/2014	110	123	33	0	24	
7/22/2014	176	189	9	22	26	
7/23/2014	81	94	5	7	25	
7/24/2014	60	73	42	3	10	
7/25/2014	62	75	40	4	0	started pumping unit
7/26/2014	50	63	32	0	16	
7/27/2014	51	64	33	0	25	
7/28/2014	54	67	33	0	24	
7/29/2014	55	68	33	0	24	
7/30/2014	52	65	34	0	25	
7/31/2014	54	67	34	0	26	

Total 967 726

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W381

Zimbelman 02-24

St. Francis

St. Francis

None

August-14

	Casing							HRS	•	Water	REMARKS
DATE	PSI	S	TATIC	MCF	SPM	CY	CLE	DOWN	]	BBLS	(Maximum length 110 characters
8/1/2014		54	67	3	4	6	12		0	25	
8/2/2014		54	67	3	4	6	12		0	25	
8/3/2014		53	66	3	4	6	12		0	25	
8/4/2014		53	66	3	4	6	12		0	25	
8/5/2014		53	66	3	4	6	12		0	25	
8/6/2014		53	66	3	4	6	12		0	25	
8/7/2014		54	61	3	3	6	12		0	25	
8/8/2014		54	67	3	3	6	12		0	25	
8/9/2014		58	71	3	4	6	12		0	25	
8/10/2014		56	69	3	4	6	12		0	25	
8/11/2014		55	68	3	5	6	12		0	25	
8/12/2014		53	66	3	5	6	12		0	25	
8/13/2014		54	67	3	5	6	12		0	25	
8/14/2014		52	65	3	5	6	12		0	25	
8/15/2014		59	72	3	3	6	12		3	25	
8/16/2014		56	69	3	3	6	12		0	25	
8/17/2014		56	69	3	3	6	12		0	25	
8/18/2014		58	71	3	5	6	12		0	25	
8/19/2014		63	76	3	4	6	12		2	25	
8/20/2014		63	76		4	6	12		0	25	
8/21/2014		57	70		5	6	12		0	25	
8/22/2014		57	70		5	6	12		0	25	
8/23/2014		51	64		5	6	12		0	25	
8/24/2014		53	66	3	5	6	12		0	25	4.5 min BT
8/25/2014		68	81	3	5	6	12		0	25	
8/26/2014		54	67	3	5	6	12		0	25	
8/27/2014		57	70	3	5	6	12		0	25	
8/28/2014		65	78	3	5	6	12		0	12.5	
8/29/2014		52	65	3	0	6	12		5	12.5	
8/30/2014		64	77	3	4	6	12		0	25	
8/31/2014		66	79	3	5	6	12		0	25	
Total				105	۵					750	

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