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

Type Test	:	7	75T_		(	See Instruct	tions on Re	verse Side	e)			
Open Flow				Test Date	Test Date:				API No. 15			
	liverabi	ilty			6/22/14				023	3-21268-00		
Company Rosewoo		soui	ces, Inc.				Lease Zimbeln	nan			23-24	Well Number
County Location S Cheyenne NESW				Section 24				RNG (E 41W	/W)		Acres Attributed 80	
Field Cherry C	reek					Reservoir Niobrara				thering Conn Systems In		
Completic 10/1/201		Э			Plug Bac 1461'	k Total Dept	th		Packer S	Set at		
Casing Si 4 1/2"	ze		Weigh 10.5#		Internal Diameter Set at 6.366 1499'			Perfo	orations 4'	™ 1334'		
Tubing Si	Zθ		Weigh	t	Internal E	Internal Diameter Set at			Perfo	orations	То	
Type Com					Type Flui	d Production	n		Pump U	nit or Traveling	Plunger? Yes	(No
`			rulus / Tubing	1)		arbon Dioxi	de		% Nitrog		Gas Gra	avity - G
Annulus											.6	
Vertical D 1510'	epth(H	()				Press Flan	sure Taps <b>ge</b>				(Meter F 2"	Run) (Prover) Size
Pressure	Buildu		Shut in 6-7	2							14 at 6:35	(AM((PM))
Well on L	ine:	:	Started 6-2	22	o <u>14</u> at <u>6</u>	:35	(AM) (PM)	Taken 6-	23	20	14 at 6:50	(AM)(PM)
			-		<u>-</u>	OBSERVE	D SURFACE		1		Duration of Shut-i	n_360Hours
Static / Ortice Meter Diff  Dynamic Size Prover Pressure		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	emperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing ead Pressure or (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			P9 (,	menes ri <sub>2</sub> s			psig 221	235.4	psig	psia		
Flow							54	68.4			360	
						FLOW STR	EAM ATTR	BUTES		Г		
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ent ,)	Pro	Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Faci F <sub>c</sub>	tor	Flowing femperature Factor F <sub>tt</sub>	Fa	lation ctor pv	Metered Flow R (Mcfd)	w GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G_m
									•	3		
					•		ERABILITY				-	= 0.207
(P <sub>c</sub> ) <sup>2</sup> =		<u>-:</u> _	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2	P <sub>d</sub> =			- 14.4) +		<del></del> :	(P <sub>d</sub> ) <sup>2</sup>	[= 
(P <sub>c</sub> )²- (F or (P <sub>c</sub> )²- (F		(P	(P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>o</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. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slor As:	ssure Curve 00 = "n" or signed ard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	by:	<u> </u>	Starius	u ulope				
Open Flor	N			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a
The (	undersi	gned	d authority, or	n behalf of the	Company, s	states that h	ie is duly au				ort and that he ha	s knowledge of
the facts s	tated ti	nerei	n, and that sa	aid report is tru	e and correc	t. Executed		2		December	me d	, 20
			Witness (i	f any)		CORPORATIO	N COMMISSIQ		M	MUL	TUOTO Company	voy_
		_	For Comm	ission		-EB 25	_			Che	cked by	
					ርብነ	JCERI/ATION	INDUQUAL.					

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 Zimbelman 23-24 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.
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.

## W2747 Zimbelman 23-24

St. Francis

St. Francis

Flow

June-174

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	56				
6/2/201	60				
6/3/2018	76				
6/4/201	67				
6/5/2013	51				
6/6/2013	52				
6/7/2013	176				
6/8/2013	188		(		
6/9/2013	201	214			
6/10/2013	213				
6/11/2013	222				
6/12/2018	227				
- 6/13/201	229				
6/14/2013	229				
6/15/2013	230	243	(	) 24	
6/16/2013	230	243	(		
6/17/2013	231	244	(	) 24	
6/18/2013	230	243	(	24	
6/19/2013	217	240	(	) 24	
6/20/2013	223	236	(	) 24	
6/21/2013	221	234	(	) 24	
6/22/2013	221	234	(	) 24	
6/23/2013	118	131	1	5	
6/24/2013	109	122	3	0	
6/25/2013	104		4	. 0	
6/26/2013	92	105	4	0	
6/27/2013	87		4	0	
6/28/2013	66			5 0	
6/29/201	55	68			
6/30/2013	56	69	5	0	
7/1/2013		_		0	

Total 47

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

Zimbelman 23-24

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing			HF		REMARKS
DATE	PSI	STATIC	MCF	DC	NWN	(Maximum length 110 characters)
7/1/2014	56			4	0	
7/2/2014	56	69		4	0	
7/3/2014	56	69		3	0	
7/4/2014	56	69		3	0	
7/5/2014	57	70		3	0	
7/6/2014	57	70		3	0	
7/7/2014	67	80		3	0	
7/8/2014	58	71		3	0	
7/9/2014	59	72		3	0	
7/10/2014	59	72		3	0	
7/11/2014	63	76		3	0	
7/12/2014	62	75		3	0	
7/13/2014	62	75		3	0	
7/14/2014	87	100		3	0	
7/15/2014	53	66		3	0	
7/16/2014	56	69		3	0	
7/17/2014	56	69		3	0	
7/18/2014	57	70		3	0	
7/19/2014	54	66		3	0	
7/20/2014	55	68		3	0	
7/21/2014	133	146		3	0	
7/22/2014	132	145		0	22	
7/23/2014	80	93		4	7	
7/24/2014	50	63		4	3	
7/25/2014	54	67		4	4	
7/26/2014	53	66		3	0	
7/27/2014	54	67		3	0	
7/28/2014	54	67		3	0	
7/29/2014	54	67		3	0	
7/30/2014	55	68		3	0	
7/31/2014	55	68		3	0	

Total 95

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS

W2747

. . . .

Zimbelman 23-24

St. Francis

St. Francis

Flow

August-14

**FloBoss** 

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
8/1/2014	55			3	0	
8/2/2014	54			3	0	
8/3/2014	54			3	0	
8/4/2014	54			3	0	
8/5/2014	55			3	0	
8/6/2014	56			3	0	
8/7/2014	58			2	0	
8/8/2014	57			2	0	
8/9/2014	58			2	0	
8/10/2014	59		2	2	0	
8/11/2014	66			2	0	
8/12/2014	54			2	0	
8/13/2014	55			2	0	
8/14/2014	54	67		2	0	
8/15/2014	60	73		2	3	
8/16/2014	58	71		2	0	
8/17/2014	59	72	:	2	0	
8/18/2014	59	72		2	0	
8/19/2014	67	80	2	2	2	
8/20/2014	57	70	2	2	0	
8/21/2014	56	69	2	2	0	
8/22/2014	59	72	2	2	0	
8/23/2014	53	66	2	2	0	
8/24/2014	54	67	2	2	0	
8/25/2014	79	92	2	2	0	
8/26/2014	56	69		2	0	
8/27/2014	67	60		2	0	
8/28/2014	96	109		2	0	
8/29/2014	53	66		2	5	
8/30/2014	52	65	2	2	0	
8/31/2014	67	80	2	2	0	

Total 68

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS