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

Type Test	t:		_		(	See Instruc	tions on Rev	rerse Side	<del>)</del> )				
□ Ор	en Flov	i E	AST.										
	eliverabi				Test Date 6/22/14	9:				l No. 15 ·023-20564 <i>-</i>	0000		
Company		sour	ces		O/ZZ/14		Lease Isernhag	 jen				Well	Number
County Location Cheyenne SWSW					Section 23	Section TWP			RNG (E	(W)		Acres Attributed 80	
Field St. Fran	cis	_			Reservoir			<u></u>		thering Conn Systems In		-	
Completion 9/10/200		)			Plug Bac 1528'	k Total Dep	th		Packer	Set at			
Casing Size Weight					Internal Diameter Set at 4.052 1576'			Perforations 980'			то 1010'		
Tubing Si	ize		Weigh		Internal D	Diameter	Set a	t	Perf	orations	Т	ō	
Type Con					Type Flui Dry Ga	d Productio	n			nit or Traveling	Plunger?	Yes / N	0
	g Thru		ulus / Tubing	1)		arbon Diox	ide		% Nitrog			as Gravity	- G <sub>g</sub>
Vertical D		)				Pres	sure Taps						(Prover) Size
1010'						Flan	ige			<u>_</u> _		2"	
Pressure	Buildup			2									_(AM)(PM)
Well on L	ine:	5	Started 6-22	. 2	0 14 at 1	1:35	(AM)(PM)	Taken 6-	23	20	14 at 1:	:25	_ (AM) (PM)
					1	OBSERVE	D SURFACE	DATA	1		Duration of	f Shut-in _	360 Hours
Static / Orifice Orifi			Flowing Temperature t	Well Head Temperature t	Casi Wellhead I (P <sub>w</sub> ) or (P <sub>1</sub>	Pressure	Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duratio (Hours		iquid Produced (Barrels)		
Shut-In		,	psig (Pm)	Inches H <sub>2</sub> 0		· -	psig 175	psia 189.4	psig	psia			
Flow				_		_	62	76.4	-		360	0	
			_			FLOW STE	REAM ATTRI	BUTES					
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Motd  Circle one:  Mater or Prover Pressure psla  Press Extension P <sub>m</sub> x h		Fac	Gravity Factor F		Flowing Devi		Metered Flow R (Mcfd)	(Cubic Fe		Flowing Fluid Gravity G <sub>m</sub>			
										16			
					(OPEN FL	OW) (DELIV	/ERABILITY)					$\langle P_a \rangle^2 =$	
(P <sub>c</sub> ) <sup>2</sup> =	<del></del> _	<u>:</u>	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2	P <sub>d</sub> =			<sub>c</sub> - 14.4) +		<del></del> :_		(P <sub>d</sub> ) <sup>2</sup> =	<del></del>
(P <sub>c</sub> ) <sup>2</sup> - (1 or (P <sub>c</sub> ) <sup>2</sup> - (1		(P	<sub>c</sub> )²- (P <sub>w</sub> )²	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. and divide	P2. P2	Slop	sure Curve e = "n" or signed	n x	rog	Antilo	g Eq	Open Flow Deliverability uals R x Antilog
ļ,				divided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub>		<u> </u>	Standa	ard Slope	-		_		(Mcfd)
Open Flo	w			Mcfd @ 14.	.65 psia		Deliverab	ility			Mcfd @ 14	.65 psia	
		_	•	behalf of the			-				ort and that	he has k	nowledge of
the facts s	stated th	ereiı	n, and that sa	id report is tru							MI	of E	., 20 <u>14</u> .
			Witness (ii	f any)	<u>\$</u>	ANSAS CORP	eceived PORATION COME	MIRRION	JAM.	MUL	WUUL Company	Mu	ef_
			For Comm			FEB	2 5 201	5	_		ecked by		

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
and that the foreg correct to the best of equipment insta I hereby reque	going pressure information and statements contained on this application form are true and tof my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the <a href="Isernhagen 1-23">Isernhagen 1-23</a> counds that said well:
_	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.
Date: <u>12/12/14</u>	
KW	Received SAS CORPORATION COMMISSION SIGNATURE:  Signature:  Production Assistant  CONSERVATION DIVISION WICHITA, KS

## 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.

W350 Isernhagen 01-23

St. Francis

St. Francis

Pumping Unit/Elec

June-174

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN	(Maximum length 110 characters)
6/1/20134	58	71		21	0	
6/2/2013	64	77		10	0	
6/3/2013	67	80		10	0	
6/4/2013	86	99		9	0	turn on pumping unit
6/5/2013	55	68		10	0	
6/6/2013	56			11		turn off pumping unit
6/7/2013	164			8	9	
6/8/2013	167			8	24	
6/9/2013	170			0	24	
6/10/201	175			0	24	
6/11/201	175			0	24	
6/12/2011	180			0	24	
6/13/2013	172			0	24	
6/14/2013	173	186		0	24	
6/15/2013	174			0	24	
6/16/201	173			0	24	
6/17/2013	173			0	24	
6/18/2013	174			0	24	
6/19/2013	175			0	24	
6/20/2013	175			0	24	
6/21/2013	174			0	24	
6/22/2013	174			0	24	
6/23/2013	127			23	5	
6/24/2013	118			16	0	
6/25/2013	109			14	0	
6/26/2013	97			13	0	
6/27/201	88			12	0	
6/28/2013	60			12	0	
6/29/2013	58			13		started pumping unit
6/30/2013	61	74		13	0	
7/1/2013					0	

Total 203

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

W350

Isernhagen 01-23

St. Francis

St. Francis

Pumping Unit/Elec

July-14

	Casing		HR		Water	REMARKS
DATE	PSI	STATIC MCI	DO	WN_	BBLS	(Maximum length 110 characters)
7/1/2014	60	73	14	0	31	
7/2/2014	60	73	15	0	32	
7/3/2014	59	72	15	0	33	
7/4/2014	59	72	15	0	32	
7/5/2014	62	75	15	0	31	
7/6/2014	62	75	15	0	33	
7/7/2014	77	90	15	0	32	
7/8/2014	62	75	16	0	32	
7/9/2014	62	<b>7</b> 5	16	0	31	
7/10/2014	64	77	16	0	31	
7/11/2014	64	77	16	0	33	
7/12/2014	66	79	16	0	32	
7/13/2014	67	80	16	0	31	
7/14/2014	71	84	13	0	32	
7/15/2014	57	70	12	0	33	
7/16/2014	57	70	12	0	31	
7/17/2014	61	74	7	0	31	
7/18/2014	60	73	6	0	32	
7/19/2014	60	73	6	0	33	
7/20/2014	61	74	11	0	32	
7/21/2014	87	100	14	0	31	
7/22/2014	164	177	4	22	33	
7/23/2014	90	103	16	7	31	
7/24/2014	66	79	12	3	0	
7/25/2014	58	71	12	4	10	started pumping unit
7/26/2014	56	69	13	0	31	
7/27/2014	57	70	14	0	32	
7/28/2014	58	71	14	0	33	
7/29/2014	64	77	14	0	31	
7/30/2014	58	71	15	0	33	
7/31/2014	58	71	16	0	32	

Total 411 935

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

W350 Isernhagen 01-23 St. Francis St. Francis Pumping Unit/Elec August-14

	Casing						HRS		Water	REMARKS
DATE	PSI	STATIC	MCF	SPM		CYCLE	DOWN		BBLS	(Maximum length 110 characters
8/1/2014	58	71	1	5	7	18		0	31	
8/2/2014	58	71	1	5	7	18		0	31	
8/3/2014	57	70	1	4	7	18		0	31	
8/4/2014	58	71	1	3	7	18		0	31	
8/5/2014	58	71	1	2	7	18		0	31	
8/6/2014	58	71	1	2	7	18		0	31	
8/7/2014	59	72	1	2	7	18		0	32	
8/8/2014	60	73	1	1	7	18		0	32	pumping unit off restarted
8/9/2014	61	74	1	2	7	18		0	32	
8/10/2014	63	76	1	4	7	18		0	32	
8/11/2014	59	72	1	5	7	18		0	32	
8/12/2014	58	71	1	5	7	18		0	32	
8/13/2014	58	71	1	6	7	18		0	32	4 min BT
8/14/2014	56	69	1	6	7	18		0	31	
8/15/2014	64	77	1	6	7	18		3	31	
8/16/2014	62	75	1	6	7	18		0	31	
8/17/2014	62	75	1	6	7	18		0	31	
8/18/2014	62	75	1	7	7	18		0	31	
8/19/2014	67	80	1	6	7	18		2	31	
8/20/2014	67	80	1	6	7	18		0	31	
8/21/2014	60	73	1	7	7	18		0	32	
8/22/2014	68	81	1	7	7	18		0	31	I
8/23/2014	58	71	1	7	7	18		0	32	
8/24/2014	60	73	1	7	7	18		0	32	
8/25/2014	74	87	1	7	7	18		0	32	
8/26/2014	61	74	1	8	7	18		0	32	
8/27/2014	62	. 75	. 1	8	7	18		0	32	
8/28/2014	58	71		8	7	18		0	32	
8/29/2014	57	70		9	7	18		5	32	
8/30/2014	57	70		9	7	18		0	32	
8/31/2014	70		1	8		18		0	32	

Total 454 978

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015