KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	NSI		(See Instruct	ions on Reve	erse Side	·)			
Deliverability			Test Date	Test Date: API No. 15							
De	liverability	1		6/22/20	13			023	3-21270-00 0	<u> </u>	
Company Rosewoo		ources, Inc.				Lease Zweygar	dt			42-24	Vell Number
Cheyenne SENE 2			Section 24				RNG (E.	/W)		Acres Attributed	
Field Cherry C	Creek			Reservoir Niobrara					thering Conn Systems In		
Completic 10/3/201				Plug Bac 1376'	k Total Dept	h		Packer S	Set at		
Casing S 4 1/2"	ize	Weight 10.5#	t	Internal E 6.366	Diameter	Set at 1413		Perfo	rations 4'	то 1214'	
Tubing Si	ize	Weigh	t	Internal D	Diameter	Set at	•	Perfo	rations	То	
Type Con Single (Type Flui	d Production	1		Pump Un	nit or Traveling	Plunger? Yes	No
Producing		nnulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gra	avity - G _g
Vertical D					Press Flan	sure Taps			-		Run) (Prover) Size
Pressure	Buildup:	Shut in 6-2	1 2	0_13_at_5		(AM)(PM)	Taken_6-	22	20	13 _{at} 6:10	(AM)((PM))
Well on L	ine:	Started 6-22		0 13 at 6		(AM) (PM)			20	13 at 6:30	(AM)(PM)
					OBSERVE	D SURFACE	DATA			Duration of Shut-i	n 24 Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H _o 0	Flowing Temperature t	Well Head Temperature t	Casin Wellhead P (P _w) or (P ₁)	ressure or (P _c)	Wellhe	Tubing ead Pressure r (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In		poig (i iii)	mones 11 ₂ 0			190 2	psia 204.4	psig	psia	-	
Flow						64	78.4			24	
					FLOW STR	EAM ATTRIE	BUTES				
Plate Coeffied (F _b) (F Mcfd	ient p) F	Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Grav Fact F _g	tor T	Flowing emperature Factor F _{f1}	Fa	iation ctor : pv	Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
									11 .		
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a) ²	= 0.207
(P _c) ² =	 :	(P _w) ² =			9	% (Р _с	- 14.4) +	14.4 =	:	(P _d) ²	=
(P _c) ² - (F or (P _c) ² - (F		(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slope C Assi	sure Curve = "n" or gned d Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
											-
Open Flor	W		Mcfd @ 14.	65 psia		Deliverabili	ity			Mcfd @ 14.65 psia	<u> </u>
	_	ed authority, on		and correc	t. Executed			day of N	ne above repo	art and that he has	s knowledge of, 20 <u>13</u>
		Witness (if	any)		DE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13	با مری	For (Company	
		For Commi	ssion		CONSE	RVATION DIVI	SION		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.
	ing pressure information and statements contained on this application form are true and
correct to the best o	f my knowledge and belief based upon available production summaries and lease records
of equipment installa	ation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reques	t a one-year exemption from open flow testing for the _Zweygardt 42-24
gas well on the grou	ınds that said well:
(Check o	ne)
i:	s a coalbed methane producer
i:	s cycled on plunger lift due to water
i:	s a source of natural gas for injection into an oil reservoir undergoing ER
i:	s on vacuum at the present time; KCC approval Docket No
. i	s not capable of producing at a daily rate in excess of 250 mcf/D
I further agree t	o supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary t	o corroborate this claim for exemption from testing.
	\cdot
Date: 11/21/13	
	RECEIVED AND AND AND AND AND AND AND AND AND AN
	KANSAS CORPORATION COMMISSION Signature: While March 1997
	DEC 2 6 2013 Title: 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.

W2745

Zweygardt 42-24

St. Francis

St. Francis

Flow

June-13

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/2013	55			10	
6/2/2013	60			10	
6/3/2013	58	71		10	
6/4/2013	55	68		10	
6/5/2013	60	73		10	
6/6/2013	67	80		10	
6/7/2013	64	. 77		10	
6/8/2013	59	72		10	
6/9/2013	64	77		10	•
6/10/2013	93			10	2
6/11/2013	82			10	1
6/12/2013	80			10	
6/13/2013	63	76		10	
6/14/2013	63	76		11	
6/15/2013	68	81		10	
6/16/2013	68	81		10	
6/17/2013	64	77		10	
6/18/2013	59	72		10	
6/19/2013	56	69	-	10	
6/20/2013	62	75		10	
6/21/2013	59	72		10	si for state test - cp 66
6/22/2013	160	173		0 2	24 reopened - cp 190
6/23/2013	89	102		17	
6/24/2013	84	97	1	12	
6/25/2013	86		1	12	
6/26/2013	85	98	1	12	
6/27/2013	75	88	1	12	
6/28/2013	61	74	1	12	
6/29/2013	61	74	1	1	
6/30/2013	56	69	1	1	
7/1/2013					

Total 310

RECEIVED KANSAS CORPORATION COMMISSION

DEC 2 6 2013

CONSERVATION DIVISION WICHITA, KS

W2745

Zweygardt 42-24

St. Francis

St. Francis

Flow

July-13

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2013	62	75	11		
7/2/2013	62	75	11		
7/3/2013	62	75	11		
7/4/2013	64	77	11		
7/5/2013	64	77	11		
7/6/2013	64	77	11		
7/7/2013	75	88	11		
7/8/2013	72	85	10		
7/9/2013	71	84	10		
7/10/2013	68		10		
7/11/2013	71	84	. 10		
7/12/2013	77	90	10		
7/13/2013	83	96	10	2.5	
7/14/2013	82	95	10		
7/15/2013	64	77	10		
7/16/2013	61	74	10		
7/17/2013	58	71	10		
7/18/2013	86	99	10		
7/19/2013	77	90	10		
7/20/2013	79	92	10	,	
7/21/2013	80	93	10		
7/22/2013	76	89	10		
7/23/2013	73	86	10		
7/24/2013	79	92	. 10		
7/25/2013	83	96	10		
7/26/2013	72	85	10		
7/27/2013	61	74	10		
7/28/2013	62	75	10		
7/29/2013	60	73	10		
7/30/2013	94	107	10	3.5	
7/31/2013	118	131	8	5.5	

Total 315

RECEIVED KANSAS CORPORATION COMMISSION

DEC 2 6 2013

CONSERVATION DIVISION WICHITA KS

W2745

Zweygardt 42-24

St. Francis

St. Francis

Flow

¹ August-13

FloBoss

	Casing			HF		REMARKS
DATE	PSI	STATIC	MCF	D()WN	(Maximum length 110 characters)
8/1/2013	82			10		-
8/2/2013	82	95		10		
8/3/2013	77			10		
8/4/2013	78			10		
8/5/2013	71	84		10		
8/6/2013	61	74		10		
8/7/2013	57	70		10		
8/8/2013	59	72		10		
8/9/2013	62	75		10		
8/10/2013	60			10		
8/11/2013	59	72		10		
8/12/2013	58	71		10		
8/13/2013	58	71		10		
8/14/2013	58	71		10		
8/15/2013	59	72		10	0.5	
8/16/2013	68	81		10		
8/17/2013	69	82		10		
8/18/2013	69	82		10		
8/19/2013	71	84		10	1.5	·
8/20/2013	94	107		10	1	
8/21/2013	89	102		10		
8/22/2013	93	106		10	5	
8/23/2013	77	. 90		10		
8/24/2013	87	100		10	1	
8/25/2013	91	104		10	1	
8/26/2013	63	76		10		
8/27/2013	58	71		10		
8/28/2013	56	69		10		
8/29/2013	98	111		10		
8/30/2013	90	103		10		
8/31/2013	91	104		10		

Total 310

RECEIVED KANSAS CORPORATION COMMISSION

DEC 2 6 2013

CONSERVATION DIVISION WICHITA KS