KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		#SI		0	See Instruct	tions on Rev	erse Side)			
_ :	en Flow	M 21):	API No. 15						
	liverabilty			7/9/201	5			023	-21262-000	-	
Rosewor		urces, Inc.				Lease Zweyga	rdt			31-24	Well Number
County Location Cheyenne NWNE				Section TWP 24 3S			RNG (E/W) 41W				Acres Attributed 80
Field Cherry C	Creek			Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.			
Completic 10/12/20				Plug Back Total Depth 1416'				Packer S	et at		
Casing Si 4 1/2"	Sasing Size Weight 1/2" 10.5#				Diameter		Set at 1456'		rations 2'	To 1222'	
Tubing Si	ize	Weigh	nt	Internal D	Diameter	Set a	t	Perforations			
Type Con Single (Type Fluid Dry Ga	d Production	n		Pump Ur flowing	it or Traveling	Plunger? Yes	(No)
Producing		nnulus / Tubin	g)	% C	arbon Dioxi	de		% Nitrogen			avity - G _g
Vertical D	_				Pres	sure Taps		-		•	Run) (Prover) Size
1470'	_				Flan					2"	
Pressure	Buildup:		2							(AM(PM)	
Well on L	ine:	Started 7-1	0 20	15 at 6:	:00	(AM) (PM)	Taken <u>7</u> -	11	20	15 at 6:25	(AM)(PM)
					OBSERVE	D SURFACE	_	-		Duration of Shut-	in_24Hours
Static / Dynamic Property	Dynamic Size Prover Pressure in		Differential	Flowing Well Head Temperature t		(P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
Shut-In		poig (: my	1101100 1120			114	psla 128.4	psig	psia		
Flow				- "		46	60.4			24	_
					FLOW STR	EAM ATTRI	BUTES				
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia Press Extension ✓ P _m x h		Grav Fact F _o	or	Flowing Femperature Factor F _{f1}	ature Factor		Metered Flov R (Mcfd)	v GOR (Cubic Fed Barrel)	Flowing Fluid Gravity G _m
		<u>-</u>							9		
			·	(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a):	2 = 0.207
(P _c) ² =	 :	(P _w) ² =	Choose formula 1 or 2:	P _d = .		<u>% (Р</u>	<u>- 14.4) +</u>	14.4 =	: _	(P _d) ²	! =
(P _c) ² - (F or (P _c) ² - (F		(P _o)²- (P _)²	1. P _c ² -P _t ² 2. P _c ² -P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Stop Ass	sure Curve e = "n" or signed	nxl	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
-	_		divided by: $P_c^2 - P_w^2$	by:	<u> </u>	Standa	ard Slope				(mold)
Open Flor	w	_	Mcfd @ 14.	65 psia		Deliverab	lity			Mcfd @ 14.65 psi	a
The c	undersign	ed authority, o	n behalf of the	Company, s	tates that h	e is duly au				rt and that he ha	s knowledge of
the facts st	tated there	ein, and that s	aid report is true	and correct	t. Executed	this the 18	 '	day of D	ecember		, 20 <u>15</u>
		Witness (if anyl	K	(CC-W	CHIE	3	Tin	mll	Marti	my_
					APR 0						
	-	For Comm	nission		AFIC	1 2010			Che	cked by	

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exempt status under Rule K.A.R. 82-3-	under the laws of the state of Kansas that I am authorized to request 304 on behalf of the operator Rosewood Resources, Inc.
• • •	mation and statements contained on this application form are true and
•	nd belief based upon available production summaries and lease records
•	type of completion or upon use being made of the gas well herein named.
	ption from open flow testing for the Zweygardt 31-24
gas well on the grounds that said well:	
is on vacuum at the is not capable of pr	er lift due to water ral gas for injection into an oil reservoir undergoing ER e present time; KCC approval Docket No roducing at a daily rate in excess of 250 mcf/D st of my ability any and all supporting documents deemed by Commission
Date: _12/18/15	
KCC WICHITA APR 0.7 2016 RECEIVED	Signature: <u>C.) Annul Marting</u> Title: <u>Production Assistant</u>

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.

W2743 Zwaygardt 31-24 11

St. Francis

St. Francis

Flow

July-15

FloBoss

FloBoss						
	Tubing	Casing			HRS Water	REMARKS
DATE	PSI		ATIC MCF	SPM	CYCLE DOWN BBLS	(Maximum length 110 characters)
7/1/2015		47	60	9	0	· · · · · · · · · · · · · · · · · · ·
7/2/2015		47	60	9	0	
7/3/2015		46	59	9	0	
7/4/2015		47	60	9	0	
7/5/2015		47	60	9	0	
7/6/2015		47	60	9	2	
7/7/2015		47	60	9	0	
7/8/2015		47	60	9	16	
7/9/2015		114	127	0	24	
7/10/2015		173	186	1	14	
7/11/2015		109	122	18	0	
7/12/2015		73	86	12	0	
7/13/2015		56	69	11	0	
7/14/2015		47	60	11	0	
7/15/2015		48	61	11	0	
7/16/2015		47	60	10	0	
7/17/2015		47	60	10	0	
7/18/2015		46	59	10	0	
7/19/2015		46	59	9	0	
7/20/2015		45	58	9	0	
7/21/2015		49	62	9	2	
7/22/2015		46	59	9	0	
7/23/2015		46	59	9	0	
7/24/2015		46	59	9	0	
7/25/2015		46	59	9	0	
7/26/2015		46	59	9	0	
7/27/2015		45	58	9	0	
7/28/2015		45	58	9	0	
7/29/2015		45	58	9	0	
7/30/2015		45	58	9	0	
7/31/2015		45	58	9	0	

Total 283 0

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St. Francis

St. Francis

Flow

August-15

FloBoss

FloBoss									
	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCL <u>E</u>	DOWN	BBLS	(Maximum length 110 characters)
8/1/2015		48	61	_	9			0	
8/2/2015		45	5 58		9			0	
8/3/2015		45	58	1	9			0	
8/4/2015		45	5 58		9			0	
8/5/2015		44	57	•	9			0	
8/6/2015		44	57	•	9			0	
8/7/2015		45	5 58	;	9			0	
8/8/2015		45	5 58	1	9			0	
8/9/2015		45	5 58		9			0	
8/10/2015		48			9			0	
8/11/2015		49	62		9			0	
8/12/2015		49	62		9			0	
8/13/2015		5() 63	,	9			0	
8/14/2015		50) 63	;	9			0	
8/15/2015		51	. 64	ļ	9			0	
8/16/2015		51	64		9			0	
8/17/2015		51	64		9			0	
8/18/2015		51	64		9			0	
8/19/2015		50) 63	i	9			0	
8/20/2015		50			9			0	
8/21/2015		50		;	9			0	
8/22/2015		50		;	9			0	
8/23/2015		50			9			0	
8/24/2015		50		3	9			0	
8/25/2015		5		,	9			0	
8/26/2015		5	l 64	ļ	9			0	
8/27/2015		5	l 64	1	9			0	
8/28/2015		5	l 64		9			0	
8/29/2015		5	l 64	,	9			0	
8/30/2015		5	l 64	}	9			4	
8/31/2015		5	1 64	}	9			0	

Total 279 0

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Zweygardt 31-23

St. Francis

St. Francis

Flow

September-15

FloBoss

FloBoss								
	Tubing	Casing			<u></u>	HRS	Water	REMARKS
DATE	PSI	PSI	STATIC MO	CF SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2015		46	59	9		(0	
9/2/2015		46	59	9		(0	
9/3/2015		48	61	9		(9	
9/4/2015		48	61	9		(0	
9/5/2015		57	70	9		(0	
9/6/2015		57	70	9		(D	
9/7/2015		55	68	9		(0	
9/8/2015		55	68	9		(D	
9/9/2015		48	61	9		(0	
9/10/2015		48	61	9		(0	
9/11/2015		48	61	9		(0	
9/12/2015		48	61	9		(0	
9/13/2015		48	61	9		(0	
9/14/2015		48	61	9		()	
9/15/2015		48	61	9		(0	
9/16/2015		48	61	9		(0	
9/17/2015		48	61	9		(0	
9/18/2015		48	61	9		(0	
9/19/2015		48	61	9		(0	
9/20/2015		48	61	9		(0	
9/21/2015		48	61	9		(0	
9/22/2015		48	61	9		(0	
9/23/2015		48	61	9		(0	
9/24/2015		48	61	9		()	
9/25/2015		48	61	9		()	
9/26/2015		48	61	9		()	
9/27/2015		48	61	9		()	
9/28/2015		48	61	9		(ס	
9/29/2015		48	61	9		(O	
9/30/2015		48	61	9		(O	
10/1/2015			13			()	

Total 270 0

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