KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	-		6	See Instruct	tions on Rev	erse Side	9)				
Op	en Flow	ADI	Test Date:					API No. 15				
De	liverabilty	<u>'</u>		7/9/2015					3-21258-00 0	0		
Company Rosewood Resources, Inc.				Lease Zweygardt						23-19	Well Number 23-19	
County	ne	Locatio NESW	n	Section TWP 19 3S				RNG (E 40W	(W)		Acres Attributed 80	
Field Cherry C	Creek			Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.						
Completion 9/14/201				Plug Back 1475'	k Total Dept	th	Packer Set at					
Casing S 4 1/2"	Casing Size Weight 4 1/2" 10.5#			Internal D 6.366)iameter		Set at 1 514 '		orations 6'	To 1346'		
Tubing S NONE	Tubing Size Weight NONE			Internal Diameter Set a			t	Perfo	orations	То		
Type Con Single (Describe) ntional)		Type Fluid Dry Ga	d Production	n		Pump U flowin	nit or Traveling	Plunger? Yes	(No)	
Producing Annulus		nnulus / Tubing)		% C	arbon Dioxi	de					avity - G _g	
Vertical D				_	Pres	sure Taps				(Meter Run) (Prover) Size		
1530'					Flan					2"		
Pressure	Buildup:	Shut in								15 at 6:35	(AM(PM)	
Well on L	.ine:	Started 7-10	2	0 15 at 6:	35	(AM) (PM)	Taken 7-	11	20	15 at 6:50	(AM)(PM)	
					OBSERVE	D SURFACE				Duration of Shut-	in 24 Hours	
Static / Orifice Dynamic Size Property (inches)		Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _i) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	_						187.4		, , , , , , , , , , , , , , , , , , ,			
Flow					_	47	61.4	_		24		
	-				FLOW STR	EAM ATTRI	BUTES				- ,	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	er or Extension		Gravity Factor F _g		Flowing Deviation Factor F _{t1}		Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m	
	_								8			
L 				(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS	<u> </u>	(P _a)	2 = 0.207	
(P _c) ² =	<u>:</u>		:	P _d ⇒		<u>% (P</u>	<u>- 14.4) +</u>	14.4 = _	 :	(P _d)	² =	
(P _c) ² - (I	P _a) ²	(P _e) ² - (P _w) ²	hoose formula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_s^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop Ass	sure Curve e = "n" or igned ard Slope	l n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mofd)	
_		Q.					· ·					
				<u> </u>			_		<u>_</u>			
Open Flo	w		Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 psi	<u>a</u>	
									he above repo December	ort and that he ha	s knowledge of	
ine facts \$	ialeo ine	rein, and that sai	u report is true						naill	Mossi	Tom	
		Witness (if	any)	K(CC WI	CHITA		100	For	Company	~ y -	
		For Commis	sion	A	PR 07	2016 -			Che	cked by		

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	r penalty of perjury under the laws of the state of Kansas that I am authorized to request
	er Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
_	oing pressure information and statements contained on this application form are true and
	of my knowledge and belief based upon available production summaries and lease records
	lation and/or upon type of completion or upon use being made of the gas well herein named.
	st a one-year exemption from open flow testing for the Zweygardt 23-19
gas well on the gro	unds 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
\checkmark	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
staff as necessary	to corroborate this claim for exemption from testing.
Date: 12/18/15	
Date: 12/18/15	
	CC WICHITA
K	CC WICHITA
K	APR 07 2016 Signature: Com all Moutine
K	

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.

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W2740 Zweygardt 28-19

St. Francis

St. Francis

Flow

July-15

FloBoss

FloBoss					<u> </u>	
	Tubing	Casing			HRS Water	REMARKS
DATE	PSI		TATIC MCF	SPM	CYCLE DOWN BBLS	(Maximum length 110 characters)
7/1/2015		50	63	8	0	
7/2/2015		50	63	8	0	
7/3/2015		50	63	8	0	
7/4/2015		50	63	8	0	
7/5/2015		50	63	8	0	
7/6/2015		49	62	8	2	
7/7/2015		4 9	62	8	0	
7/8/2015		49	62	8	16	
7/9/2015		71	84	1	24	
7/10/2015		173	186	0	14	
7/11/2015		99	112	15	0	
7/12/2015		74	87	10	0	
7/13/2015		58	71	10	0	
7/14/2015		50	63	9	0	
7/15/2015		51	64	9	0	
7/16/2015		49	62	9	0	
7/17/2015		49	62	9	0	
7/18/2015		48	61	9	0	
7/19/2015		48	61	8	0	
7/20/2015		48	61	8	0	
7/21/2015		51	64	8	2	
7/22/2015		48	61	8	0	
7/23/2015		48	61	8	0	
7/24/2015		48	61	8	0	
7/25/2015		48	61	8	0	
7/26/2015		48	61	8	0	
7/27/2015		47	60	8	0	
7/28/2015		47	60	8	0	
7/29/2015		47	60	8	0	
7/30/2015		47	60	8	0	
7/31/2015		47	60	8	0	

Total 249 0

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W2740 Zweygardt 28-19

St. Francis

St. Francis

Flow

August-15

FinRoss

FloBoss						<u> </u>
	Tubing	Casing			HRS Water	REMARKS
DATE	PSI	PSI ST	TATIC MCF	SPM	CYCLE DOWN BBLS	(Maximum length 110 characters)
8/1/2015		47	60	8	0	
8/2/2015		47	60	8	0	
8/3/2015		48	61	8	0	
8/4/2015		47	60	8	0	
8/5/2015		47	60	8	0	
8/6/2015		47	60	8	0	
8/7/2015		47	60	8	0	
8/8/2015		48	61	8	0	
8/9/2015		49	62	8	0	
8/10/2015		51	64	8	0	
8/11/2015		52	65	8	0	
8/12/2015		52	65	8	0	
8/13/2015		52	65	8	0	
8/14/2015		53	66	8	0	
8/15/2015		53	66	8	0	
8/16/2015		54	67	8	0	
8/17/2015		54	67	8	0	
8/18/2015		53	66	8	0	
8/19/2015		53	66	8	0	
8/20/2015		53	66	8	0	
8/21/2015		53	.66	8	0	
8/22/2015		53	66	8	0	
8/23/2015		53	66	8	0	
8/24/2015		53	66	8	0	
8/25/2015		53	66	8	0	
8/26/2015		53	66	8	0	
8/27/2015		53	66	8	0	
8/28/2015		53	66	8	0	
8/29/2015		53	66	8	0	
8/30/2015		53	66	8	4	
8/31/2015		53	66	8	0	

Total 248

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W2740

Zweygardt 23±19

St. Francis

St. Francis

Flow

September-15

FloBoss

FloBoss									
	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2015		4	9 62		8	_		0	_
9/2/2015		4	8 61		8			0	
9/3/2015		5	1 64		8			0	
9/4/2015		6	0 73		8			0	
9/5/2015		6			8			0	
9/6/2015		6	0 73		8			0	
9/7/2015		5	8 71		8			0	
9/8/2015		5.	8 71		8			0	
9/9/2015		5	0 63		8			0	
9/10/2015		5			8			0	
9/11/2015		5	0 63		8			0	
9/12/2015		5			8			0	
9/13/2015		5			8			0	
9/14/2015		5	0 63		8			0	
9/15/2015		5	0 63		8			0	
9/16/2015		5	0 63		8			0	
9/17/2015		5	0 63		8			0	
9/18/2015		5	0 63		8			0	
9/19/2015		51	0 63		8			0	
9/20/2015		51	0 63		8			0	
9/21/2015		5	0 63		8			0	
9/22/2015		5	0 63		8			0	
9/23/2015		5	0 63		8			0	
9/24/2015		5	0 63		8			0	
9/25/2015		5	0 63		8			0	
9/26/2015		5	0 63		8			0	
9/27/2015		5	0 63		8			0	
9/28/2015		5			8			0	
9/29/2015		5			8			0	
9/30/2015		5	0 63		8			0	
10/1/2015			13					0	

Total 240 0

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