KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	MSI		(See Instruc	tions on Re	verse Side)				
∐ Op	Open Flow Test Date: API No. 15											
De	Deliverability 7/9/2015 023-21255-00 00							0				
Company Lease Rosewood Resources, Inc. Zweygardt 13-19									Well Number			
County Location S Cheyenne NWSW					Section TWP 19 3S				W)		Acres Attributed	
Field Cherry C	reek			Reservoir Niobrara			_		hering Conn			
Completic 11/12/10				Plug Bac	- 1g = - 1 1				Set at			
Casing Si	ize	Weight 10.5#		Internal Diameter Set at 6.366 1500'			Perfo 133	rations 4'	To 1364'			
Tubing Si	ze	Weight			Internal Diameter Set at				rations	То		
Type Con	npletion (D		<u> </u>	Type Flui	d Production	ត		Pump Ui	nit or Traveling	Plunger? Yes	No	
`		nulus / Tubing)			arbon Dioxi	de		% Nitrog	<u> </u>	Gas Gr	avity - G	
Annulus		5,						_		.6		
Vertical D	epth(H)				Pres	sure Taps				(Meter	Run) (Prover) Size	
1515'					Flan	ge		<u></u>		2"		
Pressure	•									15 at 5:25	(AM(PM)	
Well on L	ine:	Started _7-10	20	15 at 5	25	(AM) (PM))Taken <u>7-</u>	11	20	15 at 5:40	(AM)(PM)	
					OBSERVE	D SURFAC		·		Duration of Shut-	in 24 Hours	
Static / Dynamic Property	Dynamic Size Prover Pressure in		Differential in	Flowing Well Head Temperature t t		Casing Wellhead Pressure $(P_w) \text{ or } (P_1) \text{ or } (P_0)$		Tubing Wellhead Pressure $(P_w) \text{ or } (P_1) \text{ or } (P_c)$		Duration (Hours)	Liquid Produced (Barrels)	
Shut-in		psig (Pm)	Inches H ₂ 0		<u>`</u>	psig 127	psia 141.4	psig	psia	-		
Flow						53 67.4				24		
					FLOW STP	REAM ATTR	IBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or over Pressure psía	Press Extension ✓ P _m x h	Gravity Factor F _g		Temperature Fa		iation Metered Flow ictor R (Mcfd)		v GOR (Cubic Fe Barrel)	fáravity l	
					_				8			
				(OPEN FL	OW) (DETIN	ERABILITY) CALCUL	ATIONS		(P _a)	²= 0.207	
(P _c) ² =	:	(P _w) ² =	:	P _d =	<u>`</u>	% (F	o _c - 14.4) +	14.4 = _	<u>:</u> _	(P _a)		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$(P_c)^2 - (P_w)^2$ 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	formula 1. or 2. and divide p 2 _ p 2		Backpressure Curve Slope ≈ "n" or Assigned Standard Slope		rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
-			nueu by: Te Tw	by:	<u></u>	Glaric	<u> </u>	\neg			 	
Open Flor	w _		Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 ps	ia	
	_	•				_				ort and that he ha	as knowledge of	
the facts st	tated there	in, and that said	d report is true	and correc	t. Executed	this the 1	8	day of	ecember		, 20 <u>15</u> .	
		Witness (if a	iny)	K	ec Wi	CHITA		UN	raull For C	-////OUL	tuy	
		For Commiss	sion	<u>-</u>	APR 07	2016				cked by		

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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 Zweygardt 13-19 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. Date: 12/18/15
KCC WICHITA Title: Production Assistant APR 07 2016 RECEIVED

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.

W2731

St. Francis

St. Francis

Flow

July-15

Total

FioBoss

FloBoss							
	Tubing	Casing			HRS	Water	REMARKS
DATE	PSI		TATIC MCF	SPM	CYCLE DOWN	BBLS	(Maximum length 110 characters)
7/1/2015		55	68	8		0	
7/2/2015		55	68	8		0	
7/3/2015		55	68	8		0	
7/4/2015		55	68	8		0	
7/5/2015		55	68	8		0	
7/6/2015		54	67	8		2	
7/7/2015		54	67	8		0	
7/8/2015		54	67	8	1	16	
7/9/2015		127	140	0	2	24	
7/10/2015		173	186	0	i	4	
7/11/2015		118	131	12		0	
7/12/2015		81	94	12		0	
7/13/2015		65	78	9		0	
7/14/2015		56	69	9		0	
7/15/2015		56	69	8		0	
7/16/2015		55	68	8		0	
7/17/2015		55	68	8		0	
7/18/2015		54	67	8		0	
7/19/2015		54	67	8		0	
7/20/2015		53	66	8		0	
7/21/2015		57	70	8		2	
7/22/2015		54	67	8		0	
7/23/2015		54	67	8		0	
7/24/2015		53	66	8		0	
7/25/2015		53	66	8		0	
7/26/2015		53	66	8		0	
7/27/2015		53	66	8		0	
7/28/2015		53	66	8		0	
7/29/2015		53	66	8		0	
7/30/2015		53	66	8		0	
7/31/2015		53	66	8		0	

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KCC WICHITA APR 0.7 2016 RECEIVED 0

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W2731 Zweygardt18216

St. Francis

St. Francis

Flow

August-15

FloBoss

FloBoss								
	Tubing	Casing				HRS	Water	REMARKS
DATE	PSI	PSI	STATIC MO	CF SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2015	_	53	66	8			0	
8/2/2015		53	66	8			0	
8/3/2015		55	68	8			0	
8/4/2015		54	67	8			0	
8/5/2015		54	67	8			0	
8/6/2015		54	67	8			0	
8/7/2015		54	67	8			0	
8/8/2015		54	67	8			0	
8/9/2015		55	68	8			0	
8/10/2015		57	70	8			0	
8/11/2015		57	70	8			0	
8/12/2015		57	70	8			0	
8/13/2015		58	71	8			0	
8/14/2015		58	71	8			0	
8/15/2015		58	71	8			0	
8/16/2015		59	72	7			0	
8/17/2015		59	72	7			0	
8/18/2015		58	71	7			0	
8/19/2015		58	71	7			0	
8/20/2015		58	71	7			0	
8/21/2015		58	71	7			0	
8/22/2015		58	71	7			0	
8/23/2015		58	71	7			0	
8/24/2015		58	71	7			0	
8/25/2015		64	77	7			0	
8/26/2015		64	77	7			0	
8/27/2015		64	77	7			0	
8/28/2015		64	77	7			0	
8/29/2015		64	77	7			0	
8/30/2015		64	77	7			4	
8/31/2015		64	77	7			0	

Total 232 0

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W2731

Zweygardi 13-19

St. Francis

St. Francis

Flow

September-15

FloBoss

FloBoss									_
DATE	Tubing	Casing	07.477.0) (OP	CDV (01/01/11	HRS	Water	REMARKS
DATE	P <u>S</u> I	PSI	STATIC		SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2015		54						0	
9/2/2015		54						0	
9/3/2015		56						0	
9/4/2015		56						0	
9/5/2015		64					1	0	
9/6/2015		65						0	
9/7/2015		62	-					0	
9/8/2015		62		7				0	
9/9/2015		55			'			0	
9/10/2015		55					I	0	
9/11/2015		55					ļ	0	
9/12/2015		55					1	0	
9/13/2015		55	68				1	0	
9/14/2015		55	68	7			1	0	
9/15/2015		55	68	7			1	0	
9/16/2015		55	68	7	'			0	
9/17/2015		55	68	7			+	0	
9/18/2015		55	68	7			I	0	
9/19/2015		55	68	7			1	0	
9/20/2015		55	68	7			1	0	
9/21/2015		55	68	7			1	0	
9/22/2015		55	68	7			1	0	
9/23/2015		<i>55</i>	68	7			1	0	
9/24/2015		55	68	7			(0	
9/25/2015		55	68	7			(0	
9/26/2015		55	68	7			(0	
9/27/2015		55	68	7			(0	
9/28/2015		55	68	7				0	
9/29/2015		55	68	7			1	0	
9/30/2015		55	68	7				0	
10/1/2015			13				(0	

Total 210 0

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