KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	and I		((See Instruc	tions on Re	verse Side	∌)				
Op	oen Flow	KSI		Test Dat	••			4.0	l No. 45			
De	eliverabilty	<u>′ </u>		Test Date 7/9/201					'I No. 15 3-21260-00 (0		
Company Rosewo		ources, Inc.				Lease Zweyga	rdt			11-19	Well Number	
County Location Cheyenne NWNW				Section 19				RNG (E 40W	(W)		Acres Attributed 80	
Field Cherry C	Creek								thering Conn Systems In			
Completion 9/23/201				Plug Bac 1418'	k Total Dep	th		Packer	Set at			
Casing S 4 1/2"	Size	Weig 10.5		Internal I	Diameter	Set 8		Perfe	orations 52'	To 1282'		
Tubing Si	ize	Weig	ht	Internal Diameter Set at					orations	То		
		Describe)	·	Type Flui Dry Ga	d Production	n		Pump U flowin	nit or Traveling	Plunger? Yes	No	
	<u>`——</u>	nnulus / Tubit	ng)		arbon Dioxi	ide		% Nitro		Gas Gr	avity - G	
Annulus										.6		
Vertical D	Pepth(H)				Pres Flan	sure Taps				(Meter . 2"	Run) (Prover) Size	
Pressure	Buildup:	Shut in 7-!	9	15 at 5			Taken_7-	10		15 _{at} 5:40	(AM((PM))	
Well on L	.ine:	Started 7-								15 at 5:55	(AM)(PM)	
					OBSERVE	D SURFACI	E DATA			Duration of Shut-	inHours	
Static / Dynamic Property	Ornice Meter Differenti		Differential in	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing ead Pressure or (P_1) or (P_2)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-in		psig (Pm) Inches H ₂ 0		psig 92	psia 106.4	psig	psia		 			
Flow					-	52	66.4			24		
					FLOW STR	REAM ATTR	BUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia Press Extension ✓ P _m × h		Fac	Gravity Factor F		ng Deviatio sture Factor F _{pv}		Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity	
	[12			
	·			(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a)	² = 0.207	
(P _c) ² =	:	(P _w) ² :		P₀≔		% (F	- 14.4) +	14.4 = _	:_	(P _d)		
$(P_a)^2 - (P_a)^2$ $(P_a)^2 - (P_a)^2$		(P _c) ² - (P _w) ² 1. P _c ² - P _d ² 2. P _c ² - P _d ²		LOG of formula 1. or 2. and divide	formula 1. or 2.		Backpressure Curve Slope = "n" or Assigned		roe	Antilog	Open Flow Deliverability Equals R x Antilog	
	u'		divided by: P _c ² - P _w	2 by:	P _c ² - P _w ²		ard Slope				(Mcfd)	
				 - -	· -	 						
Open_Flor	w _		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a	
The u	undersign	ed authority, o	on behalf of the	Company, s	tates that h	e is duly au				ort and that he ha	s knowledge of	
the facts si	tated the	ein, and that s	said report is trui	e and correc				day of _	December	1112	, 20 <u>15</u> .	
		Witness	(if any)			MICHI		KU	MALL	Company COL	my_	
		For Com			_APR	07 2016			Che	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 requested 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 a correct to the best of my knowledge and belief based upon available production summaries and lease record equipment installation and/or upon type of completion or upon use being made of the gas well herein named thereby request a one-year exemption from open flow testing for the Zweygardt 11-19	ind rds
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 Comm staff as necessary to corroborate this claim for exemption from testing.	ission
KCC WICHITA APR 07 2016 RECEIVED Signature:	-

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.

W2730 Zweygardi W19, 15

St. Francis

St. Francis

Flow

July-15

FloBoss

Total

FloBoss									
	Tubing	Casing					HRS	Water	REMARKS
DATE _	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2015		54	67	12	2	- 		0	
7/2/2015		54	67	12				0	
7/3/2015		54	67	12	2			0	
7/4/2015		54	67	12	2			0	
7/5/2015		54	67	12	2			0	
7/6/2015		53	66	12	2			2	
7/7/2015		53	66	12	2			0	
7/8/2015		53	66	12	2		1	6	
7/9/2015		92	105	0)		2	4	
7/10/2015		173	186				1	4	
7/11/2015		111	124	1:	5			0	
7/12/2015		80	93					0	
7/13/2015		64	77	13	3			0	
7/14/2015		55	68	13	3			0	
7/15/2015		55	68	13	3			0	
7/16/2015		54	67	12	2			0	
7/17/2015		54	67	12	2			0	
7/18/2015		53	66	12	2			0	
7/19/2015		53	66	12	2			0	
7/20/2015		52	65	12	2			0	
7/21/2015		56	69	12	2			2	
7/22/2015		52	65	12	2			0	
7/23/2015		52	65	12	2			0	
7/24/2015		52	65	12	2			0	
7/25/2015		52	65	12	2			0	
7/26/2015		52	65	12	2			0	
7/27/2015		52	65	13	2			0	
7/28/2015		52	65	13	2			0	
7/29/2015		52	65	13	2			0	
7/30/2015		52	65	t	2			0	
7/31/2015		52	65	1:	2			0	

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W2730 Zweygardu [1519]

St. Francis

St. Francis

Flow

August-15

FloBoss

Total

FloBoss									
•	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC 1	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2015		52	65	12				0	
8/2/2015		52	65	12				0	
8/3/2015		53	66	12				0	
8/4/2015		51	64	12				0	
8/5/2015		51	64	12				0	
8/6/2015		51	64	12				0	
8/7/2015		51	64	12				0	
8/8/2015		52	65	12				0	
8/9/2015		53	66	12				0	
8/10/2015		55	68	12				0	
8/11/2015		56	69	12				0	
8/12/2015		56	69	12				0	
8/13/2015		56	69	11				0	
8/14/2015		57	70	11				0	
8/15/2015		57	70	11				0	
8/16/2015		58	71	11				0	
8/17/2015		58	71	11				0	
8/18/2015		57	70	11				0	
8/19/2015		57	70	11				0	
8/20/2015		57	70	11				0	
8/21/2015		57	70	11				0	
8/22/2015		57	70	11				0	
8/23/2015		57	70	11				0	
8/24/2015		57	70	11				0	
8/25/2015		61	74	11				0	
8/26/2015		61	74	11				0	
8/27/2015		61	74	11				0	
8/28/2015		61	74	11				0	
8/29/2015		61	74	11				0	
8/30/2015		61	74	11				4	
8/31/2015		61	74	11				0	

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W2730 Zweygardt}l∏±19

St. Francis

St. Francis

Flow

September-15

FloRoss

<u>FloBoss</u>								
	Tubing	Casing				HRS	Water	REMARKS
DATE	PSI		ATIC MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2015		53	66	Īl	_	_ (0	
9/2/2015		52	65	11		(0	
9/3/2015		55	68	11		(0	
9/4/2015		55	68	11		(0	
9/5/2015		63	76	11		(0	
9/6/2015		64	77	I 1		(0	
9/7/2015		61	74	11		(0	
9/8/2015		61	74	11		(0	
9/9/2015		54	67	11		(0	
9/10/2015		54	67	11		()	
9/11/2015		54	67	11		(0	
9/12/2015		54	67	11		(0	
9/13/2015		54	67	11		(0	
9/14/2015		54	67	11		()	
9/15/2015		54	67	11		()	
9/16/2015		54	67	11		(0	
9/17/2015		54	67	11		()	
9/18/2015		54	67	11		()	
9/19/2015		54	67	11		()	
9/20/2015		54	67	11		()	
9/21/2015		54	67	11		()	
9/22/2015		54	67	11		()	
9/23/2015		54	67	11		()	
9/24/2015		54	67	11		()	
9/25/2015		54	67	11		()	
9/26/2015		54	67	11		()	
9/27/2015		54	67	11		()	
9/28/2015		54	67	11		()	
9/29/2015		54	67	11		()	
9/30/2015		54	67	11		()	
10/1/2015			13			()	

0 Total 330

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