KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	`	AST			((See Instruc	ctions on Re	everse Sid	le)					
Deliverabiles							Test Date: API No. 15								
		ity ——				5/9/201	<u> </u>			02	3-20663-00 0	<u> </u>			
Rosewo		sour	ces, Inc.					Lease R. Wal	ter			32-2	Well N 1	umber	
County Location Cheyenne SWNE					Section 21		TWP 3S		RNG (E	/W)		Acres Attributed 80			
Field Cherry Creek					Reservoi Niobrara				Gas Ga Branch						
	Completion Date 3/12/2006					Plug Bac 1548'	k Total Dep	oth		Packer :	Set at				
Casing S 4 1/2"	Casing Size Weight 4 1/2" 10.5#				Internal Diameter 4.052			Set at Perforations 1549' 1370'			^{То} 1402'				
Tubing Si	ize		Weigh	nt		Internal I	Diameter	Set	at	Perfo	orations	То			
Type Con Single (_	Type Flui Dry Ga	d Productio	n			nit or Traveling ing Unit	Plunger? Ye	s)/ No		
Producing		(Ann	ulus / Tubin	g)		% C	Carbon Diox	ide		% Nitrog	% Nitrogen Ga			G _g	
Vertical E	Depth(H))					Pres Flan	ssure Taps			<u>-</u>	(Mete	r Run) (F	Prover) Size	
Pressure	Buildup): S	Shut in 5-8	}	20	13 at 1		(AM)(PM)	Taken_5	-9				(AM)(PM)	
Well on L	ine:	8	Started 5-9	_	20	13 at 1	0:55	(AM)(PM)	Taken 5	-10	20	13 at 11:45	5	(AM) (PM)	
							OBSERVE	ED SURFAC	E DATA			Duration of Shu	ıt-in 24	Hours	
Static / Dynamic Property	Orifice Size (inches) Orifice Meter Prover Pressure (inches) Orifice Meter Prover Pressure (inches) Inches H ₂ 0			Flowing Temperature t	Well Head Temperature t	Wellhead	Wellhead Pressure Wellhead (P _w) or (P _t) or (P _c) (P _w) or (P		Tubing ead Pressure or (P _t) or (P _c)	Pressure Duration		id Produced (Barrels)			
Shut-In					2			88	102.4	paig	рыа				
Flow						-		45	59.4			24			
				1		1	FLOW ST	REAM ATT	RIBUTES					 _	
Coeffied (F _b) (F	Plate Coeffiecient (F _b)(F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	sion Factor		Flowing Temperature Factor F _{ft}	mperature Factor		Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
										-	20				
				<u>. </u>		(OPEN FL	OW) (DELIV	/ERABILITY	/) CALCUI	LATIONS	I	(P	a) ² = 0.2	207	
(P _c) ² =		<u>:</u>	(P _w) ² =		<u> </u>	$P_d =$		% (P _c - 14.4) -	+ 14.4 = _	<u>:</u>		a) ² =		
(P _c) ² - (F or (P _c) ² - (F	$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1. P _c ² 2. P _c ²		ose formula $\overline{1}$ or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by: LOG of formula 1. or 2. P 2 P 2		Backpressure Curve Slope = "n" Assigned Standard Slope		n x LOG		Antilog	De	pen Flow liverability s R x Antilog (Mcfd)	
0 5					M-41 C + 1	<u> </u>						M-11 @ 11 0-			
Open Flor	W				Mcfd @ 14.6	55 psia		Deliveral	oility			Mcfd @ 14.65 p	sia		
	_		•		ehalf of the o			•			ne above repo lovember	ort and that he i		vledge of	
						_		-		. De	nal	1 Ma	itu	'M	
			Witness (fany	<i>(</i>)				/		For C	Company	KCC	WICH	
			For Comm	issic	n	-				-	Chec	cked by		• • • • • • • • • • • • • • • • • • • •	

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exempt and the correct	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request t status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. at the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records
-	pment installation and/or upon type of completion or upon use being made of the gas well herein named.
	ereby request a one-year exemption from open flow testing for the R. Walter 32-21
staff as	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 arther agree to supply to the best of my ability any and all supporting documents deemed by Commission ancessary to corroborate this claim for exemption from testing.
	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.

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W371 R Walter 32-21 St. Francis St. Francis Pumping Unit May-13

- 	Casing						HRS	Water		REMARKS
DATE	PSI	STA	TIC MCF	SPM	C	YCLE	DOWN	BBLS		(Maximum length 110 characters)
5/1/2013		50	63	18	6	12			16	
5/2/2013		56	69	18	6	12			15	
5/3/2013		45	58	19	6	12			16	
5/4/2013		40	53	19	6	12			17	
5/5/2013		41	54	19	6	12			16	
5/6/2013		43	56	20	6	12			17	
5/7/2013		42	55	20	6	12			15	5.75 min bt
5/8/2013		47	60	19	6	6			7	si for state test - cp 56
5/9/2013		51	64	0	6	6	2	24	7	reopened - cp 88
5/10/2013		55	68	18	6	12			17	
5/11/2013		55	68	24	6	12			18	
5/12/2013		53	66	25	6	12			17	
5/13/2013		54	67	23	6	12			16	
5/14/2013		59	72	21	6	12			15	
5/15/2013		81	94	18	6	6	2	.5	7	pu off high fp
5/16/2013		67	80	11	6	0			0	tried to restart very little water with gas shut back of
5/17/2013		49	62	21	6	6				started pumping unit
5/18/2013		49	62	20	6	12			15	
5/19/2013		50	63	20	6	12			16	
5/20/2013		45	58	20	6	12			17	
5/21/2013		41	54	20	6	12			16	
5/22/2013		49	62	18	6	6		4	7	pu off high fp
5/23/2013		87	100	8	6	0	1	.0	0	
5/24/2013		92	105	0	6	0		4	0	
5/25/2013		92	105	0	6	0			0	
5/26/2013		84	97	8	6	0			0	
5/27/2013		80	93	18	6	0			0	
5/28/2013		72	85	18	6	0			0	
5/29/2013		61	74	24	6	0			0	
5/30/2013		47	60	23	6	6				restarted PU
5/31/2013		43	56		6	12			15	

Total 530 317

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W371 R Walter 32-21 St. Francis St. Francis Pumping Unit June-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
6/1/2013	38	51	21	6	12	_	16	-
6/2/2013	44	57	21	6	12		17	
6/3/2013	41	54	20	6	12		14	
6/4/2013	40	53	21	6	12		21	4 min bt
6/5/2013	54	67	21	6	12		16	
6/6/2013	62	75	20	6	12		21	calibrate meter - 4 min bt
6/7/2013	42	55	9	6	12		20	
6/8/2013	42	55	4	6	12		19	
6/9/2013	43	56	4	6	12		22	
6/10/2013	42	55	4	6	12	2	17	
6/11/2013	67	80	2	6	6	1	10	pu off hfp
6/12/2013	67	80	1	6	0		0	
6/13/2013	47	60	4	6	6		10	restart pu
6/14/2013	51	64	4	6	12		21	
6/15/2013	49	62	4	6	12		22	
6/16/2013	52	65	3	6	12		21	
6/17/2013	57	60	3	6	6		10	pu off
6/18/2013	41	54	4	6	0		0	
6/19/2013	35	48	3	6	6		10	restart pu
6/20/2013	40	53	3	6	12		21	•
6/21/2013	46	59	3	6	12		22	
6/22/2013	62	75	3	6	12		20	
6/23/2013	74	87	2	6	6		10	pu off hfp
6/24/2013	71	84	2	6	0		0	-
6/25/2013	74	87	1	6	0		0	
6/26/2013	73	86	2	6	0		0	
6/27/2013	65	78	3	6	12		10	restart pu
6/28/2013	44	57	3	6	12		18	-
6/29/2013	43	56	3	6	12		21	
6/30/2013	43	56	3	6	12		20	
7/1/2013								

Total 201 429

W371 R Walter 32-21 St. Francis St. Francis Pumping Unit July-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2013	44	57	3	6	12		18	-
7/2/2013	44	57	4	6	12		16	5.5 min bt
7/3/2013	46	59	3	6	12		15	
7/4/2013	47	60	3	6	12		17	
7/5/2013	47	60	3	6	12		15	
7/6/2013	48	61	3		12		16	
7/7/2013	59	72	3	6	12		14	
7/8/2013	59	72	3	6	12		13	
7/9/2013	59	72	3	6	12		12	
7/10/2013	49	62	3	6	12		11	
7/11/2013	52	65	3	6	12		13	
7/12/2013	58	71	3	6	6		7	shut pumping unit off hfp
7/13/2013	67	80	2	6	6	2.5		restarted pumping unit
7/14/2013	70	83	2	6	12		16	
7/15/2013	48	61	4	6	12		17	
7/16/2013	47	60	3	6	12		16	5.25 min bt greased
7/17/2013	56	69	4	6	12		14	•
7/18/2013	76	89	4	6	6		7	pu off hfp
7/19/2013	65	78	2	6	0			treated well
7/20/2013	66	79	3	6	0		0	
7/21/2013	65	78	3	6	0		0	
7/22/2013	66	79	3	6	0		0	
7/23/2013	57	70	3	6	6		7	restarted pumping unit
7/24/2013	65	78	3	6	12		14	
7/25/2013	71	84	2	6	6		7	pu off hfp
7/26/2013	53	66	3	6	6		7	restarted pumping unit
7/27/2013	45	58	3	6	12		14	
7/28/2013	46	59	3	6	12		13	
7/29/2013	45	58	3	6	12		16	
7/30/2013	44	57	3	6	6	3.5	7	pu off hfp
7/31/2013	85	98	1	. 6	0.	5.5	0	
Total			0.1				228	

Total 91 328