KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	MOT		(-	See Instruct	ions on Rev	erse Side	<i>;)</i>						
	Open Flow Test Date: API No. 15 Deliverability 6/32/144 023-20629-00 0													
Company				6/22/14		Lease	_	023	3-20629-00 0	- U		Well Nur	mber	
Rosewo	od Reso	urces, Inc.				R. Walte	er				21-21			
County Location Cheyenne NENW/4			Section 21		TWP 3S	• • •			Acres Attributed 80					
Field St. Franc	cis			Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.							
Completion 10/22/20				Plug Back 1518'	k Total Dept	h		Packer S	Set at					
Casing Size Weight 2.7/8" 6.5#				Internal D 2.441	Diameter		Set at 1518'		Perforations 1371'			то 1403'		
Tubing Si	ize	Weight		Internal D	Set a	Set at Perforations				То				
Type Con Single (Type Fluid	d Production	1		Pump Ui	nit or Traveling	Plunger	? Yes	(No)		
Producing		nnulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	jen	-	Gas Gra	avity - G	g	
Vertical D					Press	sure Taps			<u> </u>	_		Run) (Pr	over) Size	
1403'					Flan	ge					2"			
Pressure	Buildup:						AM) (PM) Taken 6-16					(AM)(PM)	
Well on L	.ine:	Started 6-22	<u> </u>	0 <u>14</u> at <u>10</u>	0:50 	(AM)(PM)	Taken_6-	23	20	<u>14</u> at.	11:35		AM)(PM)	
					OBSERVE	D SURFACE	DATA			Duration	of Shut-i	_{in360}	Hours	
Static / Dynamic Property	Dynamic Size Prover Pressu			Flowing Well Head Temperature t t		Casing Wellhead Pressure (P_w) or (P_1) or (P_c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_a)			Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	(IIIUIIes)	psig (Pm)	Inches H ₂ 0	<u> </u>	,	psig 230	psia 243.4	psig	psia					
Flow						122	136.4			360		0		
					FLOW STR	EAM ATTRI	BUTES							
Plate Coeffiecient (F _b) (F _p) Mofd		Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m ×h	Grav Fact	tor 1	Flowing Femperature Factor F ₁₁	Fa	riation actor = pv	Metered Flow R (Mcfd)	~	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
		-							19					
	•					ERABILITY)						²= 0.20	_ 07	
(P _c) ² =	 -	(P _w) ² =	Choose formula 1 or 2	$P_d =$		1	_c - 14.4) +	_	:	_	(P _d)			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	P _w) ² 1. P _c ² - P _a ² LOG of formula 1. or 2. P _c ² - P _c ² and divide		Backpressure Curv Slope = "n" or Assigned Standard Slope		n x LOG		An	Antilon D		en Flow verability R x Antilog Mcfd)		
-			divided by: P _c ² -P _w	2 by:	<u> </u>	Startus	and Stobe	+	<u></u>		_	<u> </u>	-	
										_				
Open Flo	w		Mcfd @ 14	.65 psia		Deliverab	ility			Mcfd @	14.65 psi	ia		
		ed authority, or								ort and th	nat he ha	is know	ledge of	
the facts s	stated the	rein, and that sa	id report is tru		Pacaiv	ed		day of _	December	1	Mar	f S	20 <u>14</u> .	
	. .	Witness (in	any)		FEB 25	ON COMMISSION 2015			For	Company	<u>ied</u>	M	y	
		For Comm	ission		MOEDWATIO	_	_		Che	cked by		_	_	

exempt status under and that the forego correct to the best of of equipment instal	er 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 llation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the R. Walter 21-21
gas well on the gro	ounds that said well:
I further agree	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/12/14	
KANSAS COF	Received RPORATION COMMISSION Signature: Cannot Market Production Assistant Title: Production Assistant

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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R Walter 21-21

St. Francis

St. Francis

None

June-184

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN	(Maximum length 110 characters)
6/1/201 34	136	149		20	0	
6/2/2013	136	149		20	0	
6/3/201	134	147		20	0	
6/4/201	135	148	`	19	0	
6/5/2013	134	147		20	0	
6/6/201	134	147		20	0	
6/7/2013	170	183		13	9	
6/8/2013	187	200		13	24	
6/9/2013	190	203		0	24	
6/10/2018	195	208		0	24	
6/11/201	205	213		0	24	
6/12/2013	210	223		0	24	
6/13/2013	228	241		0	24	
6/14/2013	229	242		0	24	
6/15/2013	229	242		0	24	
6/16/2013	230	243		0	24	
6/17/2013	230	243		0	24	
6/18/2013	231	244		0	24	
6/19/2013	226	239		0	24	
6/20/2013	227	240		0	24	
6/21/201	226	239		0	24	
6/22/201 6	226	239		0	24	
6/23/201 8	147	160		0	5	
6/24/2018	146	159		13	0	
6/25/2013	145	158		18	0	
6/26/2013	143	156		20	0	
6/27/2013	142	155		20	0	
6/28/2013	140	154		21	0	
6/29/2018	138	152		20	0	
6/30/2013	138	152		21	0	
7/1/2013					0	

Total

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W364 R Walter 21-21 St. Francis St. Francis

None

July-14

	Casing				IRS	REMARKS
DATE	PSI	STATIC	MCF	D	OWN	(Maximum length 110 characters)
7/1/2014	138	151		20	0	-
7/2/2014	138	151		20	0	
7/3/2014	136	149		20	0	
7/4/2014	136	149		20	0	
7/5/2014	135	148		20	0	
7/6/2014	135	148		20	0	
7/7/2014	134	147		20	0	
7/8/2014	133	146		20	0	
7/9/2014	133	146		20	0	
7/10/2014	132	145		20	0	
7/11/2014	132	145		20	0	
7/12/2014	132	145		20	0	
7/13/2014	132	145		20	0	
7/14/2014	131	144		19	0	
7/15/2014	130	. 143		19	0	
7/16/2014	130	143		19	0	
7/17/2014	129	142		20	0	
7/18/2014	128	141		19	0	
7/19/2014	128	141		19	0	
7/20/2014	127	140		19	0	
7/21/2014	126	139		19	0	
7/22/2014	175	188		19	22	
7/23/2014	139	152		20	7	
7/24/2014	137	150		15	3	
7/25/2014	130			16	4	
7/26/2014	136			18	0	
7/27/2014	135			21	0	
7/28/2014	134	147		20	0	
7/29/2014	133	146		20	0	
7/30/2014	132	145		20	0	
7/31/2014	131	144		20	0	

Total 602

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R Walter 21-21

St. Francis

St. Francis

None

August-14

_	Casing		HF		REMARKS
DATE	PSI	STATIC MCF	, DO)WN_	(Maximum length 110 characters)
8/1/2014	130	143	20	0	
8/2/2014	129	142	20	0	
8/3/2014	128	141	20	0	
8/4/2014	128	140	19	0	
8/5/2014	126	139	19	0	
8/6/2014	126	139	19	0	
8/7/2014	125	138	19	0	
8/8/2014	124	137	19	0	
8/9/2014	124	137	19	0	
8/10/2014	123	136	19	0	
8/11/2014	122	135	19	0	
8/12/2014	122	135	19	0	
8/13/2014	122	135	19	0	
8/14/2014	122	135	18	0	
8/15/2014	125	138	19	3	
8/16/2014	124	137	17	0	
8/17/2014	124	137	17	0	
8/18/2014	122	135	19	0	
8/19/2014	122	135	19	2	
8/20/2014	122	135	19	0	
8/21/2014	122	135	18	0	
8/22/2014	121	134	18	0	
8/23/2014	120	133	18	0	
8/24/2014	123	136	17	0	
8/25/2014	120	133	18	0	
8/26/2014	120	133	18	0	
8/27/2014	120	133	18	0	
8/28/2014	120	133	18	0	
8/29/2014	132	145	18	5	
8/30/2014	120	133	18	0	
8/31/2014	129	142	20	0	

Total 577

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