KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	t: oen Flow eliverabilt	•		Test Date	ə:	ions on Rev	erse Side	AP	l No. 15			
Company	y			5/10/20	13	Lease		023	3-20608-00 9		Well Nu	mber
County	-	ources, Inc. Loca SWSE		Section 23		Isernhag TWP 3S	<u></u>	RNG (E	/W)		Acres A	attributed
Field St. Fran				Reservoi Niobrara				Gas Ga	thering Conn	ection		
Completion 5/27/200				Plug Bac 1449'	k Total Dept	h		Packer :	Set at			
0				Internal [4.052	Internal Diameter Set at 4.052 1449'			Perfo 125	orations 0'	то 1282'		
Tubing S None	ize	Weig	ht	Internal [Diameter	Set a	t	Perforations To				
Single ((Conve	(Describe) entional)		Type Flui Dry Ga	d Production	1		Pump	nit or Traveling ing Unit	Plunger? (Yes)/ No	
Producing Annulus	•	Annulus / Tubii	ng)	% C	Carbon Dioxi	de		% Nitrog	gen 	Gas Gr .6	avity - G	à _g
Vertical E	Depth(H)				Press Flan	sure Taps ge	_			(Meter	Run) (Pı	rover) Size
Pressure	Buildup			20 13 at 8		(PM)				13 at 8:30	(AM) (PM)
Well on L	ine:	Started 5-	10 2	13 at 8	:30	(AM)(PM)	Taken <u>5-</u>	11 	20	13 _{at} 9:15	(AM)(PM)
					OBSERVE	D SURFACE	DATA			Duration of Shut-	<u>in 24</u>	Hours
Static / Dynamic Property	Dynamic Size Meter Differential Prover Pressure in		Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)		d Produced Barrels)	
Shut-In						112	126.4	parg	рыа			
Flow						57	71.4			24	0	
					FLOW STR	EAM ATTRI	BUTES		<u> </u>			
Plate Coeffiec (F _b) (F Mcfd	eient p)	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac F _s	tor T	Flowing emperature Factor F _{tt}	Fa	iation ctor : pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
		<u> </u>							22			
(D.)2		- (D.)3		•		ERABILITY)					² = 0.2	07
$(P_c)^2 =$: (P _w) ²	Choose formula 1 or 2	P _d =		T	<u>- 14.4) +</u> sure Curve		 :	(P _d)		
(P _c) ² - (I or (P _c) ² - (I		(P _c) ² - (P _w) ²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slop Ass	sdre Curve e ≈ "n" or~igned ırd Slope	l n x	rog	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)
				<u> </u>								
Open Flor			Mcfd @ 14.	· ·		Deliverabi				Mcfd @ 14.65 ps		
	_					•			he above repo lovember	rt and that he ha		ledge of 20 13
uie iacis s	ialed ine	sein, and that s	said report is true		RECEIVE	this the <u>21</u> ED ON COMMISS		day of _	11	Meu	10	1 N
		Witness			DEC 2 6	2013 _				Company		7
		For Com	mission		MEEDIATIO				Che	cked by		

CONSERVATION DIVISION WICHITA, KS

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 Isernhagen 4-23
gas well on the grounds that said well:
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: 11/21/13
RECEIVED KANSAS CORPORATION COMMISSION Signature: DEC 2 6 2013 CONSERVATION DIVISION WICHITA, KS 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.

W355 Isernhagen 04-23 St. Francis St. Francis None May-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLI	DOWN	BBLS	(Maximum length 110 characters)
5/1/2013	58	71	23	6	9		13	-
5/2/2013	63	76	24	6	9		12	
5/3/2013	54	67	23	6	9		13	
5/4/2013	51	64	25	6	9		14	
5/5/2013	54	67	25	6	9		13	
5/6/2013	5 1	64	25	6	9		12	
5/7/2013	51	64	25	6	9		14	
5/8/2013	56	69	25	6	9		12	5.5 min bt
5/9/2013	60	73	23	6	5		6	si for state test - cp 64
5/10/2013	58	3 71	0	6	5	24	6	reopened - cp 112
5/11/2013	63	3 76	27	6	9		13	
5/12/2013	62	2 75	25	6	9		12	
5/13/2013	62	2 75	27	6	9		13	
5/14/2013	66	5 79	22	6	9		11	
5/15/2013	96	5 109	21	6	4	2.5	5	pu off high fp
5/16/2013	74	87	18	6	0		0	
5/17/2013	57	7 70	24	6	4		5	restarted pumping unit and treated we
5/18/2013	57	7 70	23	6	9		10	
5/19/2013	72	2 85	24	6	9		11	
5/20/2013	67	7 80	24	6	9		12	
5/21/2013	50	63	23	6	9		14	
5/22/2013	55	68	23	6	5	14	6	pu off high fp
5/23/2013	111	124	10	6	Ó	10	0	
5/24/2013	104	117	5	6	0	4	0	
5/25/2013	95	108	17	6	0		0	
5/26/2013	89	102	26	6	0		0	
5/27/2013	86	5 99	23	6	0		0	
5/28/2013	77	7 90	26	6	0		0	
5/29/2013	66	5 79	22	6	0		0	
5/30/2013	54	67	19	6	5		6	restarted pu
5/31/2013	52	2 65	20	6	9		13	

Total 667 246

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CONSERVATION DIVISION WICHITA, KS

W355 Isernhagen 04-23 St. Francis St. Francis None June-13

	Casing				I	IRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLEI	OWN	BBLS	(Maximum length 110 characters
6/1/2013	46	59	21	6	9		13	
6/2/2013	52	65	21	6	9		11	
6/3/2013	49	62	22	6	9		12	
6/4/2013	47	60	22	6	9		14	
6/5/2013	61	74	22	6	9		12	5.5 min bt
6/6/2013	67	80	22	6	9		13	
6/7/2013	52	65	23	6	9		14	
6/8/2013	54	67	23	6	9		12	
6/9/2013	53	66	23	6	9		11	
6/10/2013	60	73	24		9	2	10	
6/11/2013	75	88	21	6	5	1	6	pu off hfp
6/12/2013	74	87	22		0		0	
6/13/2013	55	68	21	6	5			restart pu
6/14/2013	58	71	21	6	9		12	
6/15/2013	59	72	22	6	9		13	
6/16/2013	61	74	23	6	9		14	
6/17/2013	56	69	23	6	4		6	pu off
6/18/2013	50	63	20	6	0		0	
6/19/2013	44	57	20	6	4			restart pu
6/20/2013	48	61	21	6	9		16	4 min bt greased
6/21/2013	55	68	22		9		12	calibrated meter
6/22/2013	74	87	21	6	9		11	
6/23/2013	80	93	18	6	4		6	pu off hfp
6/24/2013	77	90	20		0		0	
6/25/2013	79	92	19		0		0	
6/26/2013	78	91	19		0		0	
6/27/2013	65	78	18		9		0	
6/28/2013	51	64	18		9			restart pu
6/29/2013	53	66	19		9		16	
6/30/2013	52	65	18	6	9		15	
7/1/2013					_			
Total			629				269	

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W355 Isernhagen 04-23 St. Francis St. Francis None July-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC N	ИCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2013	52	65	21	6	9		16	
7/2/2013	54		22	6	9			4.75 min bt
7/3/2013	55	68	22	6	9		12	
7/4/2013	56	69	22	6	9		14	
7/5/2013	56		22	6	9		15	
7/6/2013	56	69	23	6	9		13	
7/7/2013	68	81	23	6	9		12	
7/8/2013	67	80	22	6	9		11	·
7/9/2013	66	79	22	6	9		13	
7/10/2013	58		23	6	9		15	
7/11/2013	59	72	23	6	9		13	
7/12/2013	65	78	23	6	5			shut pumping unit off hfp
7/13/2013	74	87	20	6	0	2.5		treated well
7/14/2013	76		20	6	0		0	
7/15/2013	56	69	20	6	5		8	started pu
7/16/2013	55	68	21	6	9			5.75 min bt greased
7/17/2013	55	68	22	6	9		12	
7/18/2013	78	91	22	6	5		7	pu off hfp
7/19/2013	70	83	19	6	0		0	
7/20/2013	73	86	19	6	0		0	
7/21/2013	75	88	18	6	0		0	
7/22/2013	72	85	18	6	0		0	
7/23/2013	63	76	18	6	5			restart pu
7/24/2013	71	84	19	6	9		12	
7/25/2013	78	91	19	6	5			pu off hfp
7/26/2013	60		18	6	5			restart pu
7/27/2013	54	67	20	6	9		12	
7/28/2013	54	67	20	6	9		11	
7/29/2013	55	68	21	6	9		11	
7/30/2013	55	68	22	6	5	3.5	6	pu off hfp
7/31/2013	85	98	15	6	0_	5.5	0	
Total			639				265	

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