KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes		ī	AST.		(See Instruc	tions on Rev	verse Side))					
= :	pen Flo eliverab		211122		Test Date					No. 15				
		лиу			7/17/20	13			15-	023-20587-	-0000			
Company Rosewo		sou	rces				Lease Isernhag	gen			2-23	Well Nu	ımber	
County Cheyen	ne		Loca ^a NWSE		Section 23		TWP 3S		RNG (E/	W)		Acres /	Attributed	
Field St. Fran	icis				Reservoi Niobrara			. .		hering Conn Systems In				
Completi 9/10/200		te			Plug Bac 1508'	k Total Dep	th		Packer S	Set at				
Casing S 4 1/2"	5					Internal Diameter Set at 4.052 1514'			Perfo 131	rations 6'	то 1352'	то 1352'		
Tubing S	Size		Weig	ht	Internal [Internal Diameter Set at				rations	То			
Type Cor Single					Type Flui Dry Ga	d Productio	n			nit or Traveling	g Plunger? Yes)/ No		
Producing	•	(Anı	nulus / Tubir	ng)	% C	Carbon Diox	ide		% Nitrog	en	Gas G	ravity - 0	3 ₉	
Vertical E	Depth(H					Pres	sure Taps					Run) (P	rover) Size	
1352'						Flan					2"			
Pressure	Buildu	•	Shut in <u>7-</u>		20 13 at 8		$\overline{}$				13 _{at 8:40}	((AM)(PM)	
Well on L	_ine:		Started 7-1	172	13 at 8	:40	(AM) (PM)	Taken 7-	18	20	13 _{at} 9:25	(AM)(PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut	-in_24	Hours	
Static / Dynamic Property	ynamic Size Meter Differential Prover Pressure in		Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		ubing ad Pressure (P,) or (P _c)	Duration (Hours)		d Produced Barrels)			
Shut-In			psig (Pm)	Inches H ₂ 0			psig 143	_{psia} 157.4	psig	psia		-		
Flow				_			52	66.4			24	0	_	
						FLOW STR	REAM ATTRI	BUTES						
Coefficient Meter or Extensi		Press Extension ✓ P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{ft}	Fa	iation ctor	Metered Flor R (Mcfd)	W GOR (Cubic Fo	eet/	Flowing Fluid Gravity G _m			
										43			-	
(P _c) ² =		_:	(P _w) ² =	: ::	(OPEN FL		/ERABILITY) % (P	CALCUL 14.4) +		:	(P _a ,) ² = 0.2	07	
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(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	P _c ² - P _w ²	Slop Ass	sure Curve e = 'n" origned ard Slope	n v i	.og	Antilog	Op Del Equals	pen Flow iverability R x Antilog (Mcfd)	
Open Flor	w			Mcfd @ 14	65 psia		Deliverabi	lity	<u> </u>		Mcfd @ 14.65 ps	ia		
			-		• •		•			-	ort and that he h	as know	ledge of	
tne facts si	tated th	nerei	n, and that s	aid report is trud	e and correct KANS	t. ExecREC AS CORPOR/	BNIEDHe <u>41</u> ATION COMM		day of 14	ovember	Marti	O NAC	20 <u>13</u>	
			Witness ((if any)		DEC 2	2 6 2013			For (Company	ンリナ	1	
			For Comr	nission			TION DIVISIO HITA, KS	Ņ		Che	cked by			

exempt status und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request fer Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records allation 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
	ounds 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 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: 11/21/13	
	RECEIVED KANSAS CORPORATION COMMISSION Signature: DEC 2 6 2013 Title: Production Assistant CONSERVATION DIVISION WICHITA, KS

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.

W353 Isernhagen 02-23 St. Francis St. Francis None July-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC M	ICF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2013	53	66	48	6.5	24	-	42	
7/2/2013	53	66	46	6.5	24		40	4.25 min bt put on auto
7/3/2013	56	69	51	6.5	10		17	
7/4/2013	55	68	51	6.5	10		16	
7/5/2013	55	68	50	6.5	10		19	
7/6/2013	56	69	46	6.5	10		15	
7/7/2013	68	81	45	6.5	10		17	·
7/8/2013	66	79	45	6.5	10		16	meter read 0 mcf
7/9/2013	66	79	39	6.5	10		15	
7/10/2013	57	70	44	6.5	10		18	4 min bt
7/11/2013	59	72	44	6.5	10		19	
7/12/2013	65	78	44	6.5	5		10	shut pumping unit off hfp
7/13/2013	74	87	43	6.5	0	2.5	0	treated well
7/14/2013	77	90	41	6.5	0		0	
7/15/2013	56	69	39	6.5	5		10	started pu
7/16/2013	55	68	40	6.5	5		10	si for state test - cp 55
7/17/2013	143	62	0	6.5	5	24	10	reopened - cp 143
7/18/2013	79	92	7	6.5	5		10	pu off hfp
7/19/2013	71	84	62	6.5	0		0	
7/20/2013	74	87	54	6.5	0		0	
7/21/2013	75	88	51	6.5	0		0	
7/22/2013	72	85	48	6.5	0		0	
7/23/2013	66	79	47	6.5	5		10	restarted pu
7/24/2013	72	85	49	6.5	10		18	4 min bt
7/25/2013	78	91	51	6.5	5		10	pu off hfp
7/26/2013	60	73	47	6.5	5		10	restarted pu
7/27/2013	54	67	48		10		18	
7/28/2013	57	70	50	6.5	10		19	
7/29/2013	55	68	51	6.5	10		18	
7/30/2013	54	67	51	6.5	5	3.5	10	pu off hfp
7/31/2013	92	105	36	6.5	0_	5.5	. 0	
rotal .			1368				307	

Total 1368 397

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CONSERVATION DIVISION WICHITA, KS

W353 Isernhagen 02-23 St. Francis St. Francis None August-13

	Casing				HRS	S	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE DO'	WN	BBLS	(Maximum length 110 characters)
8/1/2013	77	90	40	6.5		-		
8/2/2013	77	90	36	6.5				
8/3/2013	76	87	34	6.5				
8/4/2013	73	86	34	6.5				
8/5/2013	65	78	34	6.5				
8/6/2013	53	66	34	6.5	5		9	restart pu
8/7/2013	49	62	35	6.5	10		18	
8/8/2013	53	66	38	6.5	10		19	
8/9/2013	57	70	39	6.5	10		18	
8/10/2013	54	67	40	6.5	10		17	
8/11/2013	52	65	41	6.5	10		18	
8/12/2013	52	65	41	6.5	10		18	
8/13/2013	51	64	42	6.5	10		18	4 min bt greased
8/14/2013	52	65	42	6.5	10		15	
8/15/2013	53	66	43	6.5	10	0.5	19	
8/16/2013	64	77	43	6.5	10		20	
8/17/2013	63	76	43	6.5	10		18	
8/18/2013	63	76	44	6.5	10		19	
8/19/2013	65	78	44	6.5	5	1.5	8	
8/20/2013	76	89	42	6.5	0	1	0	
8/21/2013	86	99	39	6.5	0		0	
8/22/2013	89	102	38		0	5	0	
8/23/2013	72	85	35	6.5	0		0	
8/24/2013	82	95	35	6.5	0	1	0	
8/25/2013	88	101	34		0	1	0	
8/26/2013	54		33	6.5	5			started pumping unit
8/27/2013	50		35	6.5	10		18	
8/28/2013	49	62	37	6.5	10		19	
8/29/2013	77		38	6.5	5	1	9	pu off hfp
8/30/2013	85	98	37	6.5	0		0	
8/31/2013	86	99	35	6.5	0		. 0	
Γotal			1185				289	•

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W353 Isernhagen 02-23 St. Francis St. Francis None

7

September-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC N	1CF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
9/1/2013	104	117	31			1		
9/2/2013	104	117	31					
9/3/2013	121	134	33			22		
9/4/2013	177	190	3			10		
9/5/2013	111	124	19					
9/6/2013	87	100	43			1		
9/7/2013	93	106	32					
9/8/2013	91	104	34					
9/9/2013	101	114	33					
9/10/2013	104	117	32			2		
9/11/2013	124	137	32					
9/12/2013	154	167	20			18		
9/13/2013	104	117	30			4		
9/14/2013	78	91	34			2		
9/15/2013	85	98	30					
9/16/2013	61	74	31					
9/17/2013	52	65	30					
9/18/2013	51	64	29	6.5	5		9	restart pu
9/19/2013	46	59	32	6.5	10		18	
9/20/2013	46	59	34	6.5	10		19	
9/21/2013	50	63	33	6.5	10		19	
9/22/2013	58	71	35	6.5	10		19	
9/23/2013	60	73	36	6.5	10		18	
9/24/2013	53	66	37	6.5	5	4	9	pu off hfp
9/25/2013	83	96	34				0	
9/26/2013	73	86	33				0	
9/27/2013	50	63	32				9	restart pu
9/28/2013	53	66	33				17	
9/29/2013	54	67	35				18	
9/30/2013 10/1/2013	59	72	36	5.5	10		16	
Total			937	-			- 171	

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