KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruct	tions on Ret	verse Side,)					
Open Flow				Test Date:				API	No. 15				
Viled	erabilty			7/30/14	,. 				181-20400-0	000			
Company Rosewood	l Reso	urces				Lease G. Ihrig					31-20	Vell Num	ber -
County Location Sherman NWNE			Section TWP 20 7S			RNG (E/W) 39W			Acres Attributed 80				
Field F			_	Reservoir Niobrara				nering Conne Systems In					
Completion 3/19/2006				Plug Bac 1178'	k Total Dept	th		Packer S	et at				
Casing Size	9	Weight 6.5#		Internal Diameter 2.441		Set at 1179'		Perforations 984'		то 1008'			
Tubing Size	-	Weight	<u> </u>	Internal Diameter Set at			Perforations			То			
Type Compl				Type Flui	d Production	1		Pump Un Flowin	it or Traveling	Plunger	? Yes /	/ (No	. –
		nnulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	en		Gas Gra	vity - G	 -
Annulus											.6		
Vertical Dep	pth(H)				Flan						2"	lun) (Pro 	ver) Size
Pressure Bu	uildup:	Shut in	92	14 at 3	:10	(AM) (PM)	Taken_7-3	30	20	14 at_	3:20	(A	M)(PM)
Well on Line	e:	Started 7-30)20	14 at 3	:20	(AM) (PM)	Taken <u>7-</u> 3	31	20	14 at	4:10	(A	M) (PM)
					OBSERVE	D SURFACI	DATA			Duration	of Shut-in	24	Hours
Dynamic	Dynamic Size Prover Pressure			Flowing Well Head Temperature t		Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)					Produced arrels)
Shut-In	-	psig (Pm)	Inches H ₂ 0			psig 11	25.4	psig	psia				
Flow						6	20.4			24		0	
					FLOW STR	EAM ATTR	IBUTES			_			
Plate Coeffiecien (F _b) (F _p) Mcfd		Circle one: Meter or rover Pressure psia	Press Extension ✓ P _m x h	Grav Fac	tor	Flowing Temperature Factor F _{f1}	Fac	ation ctor	Metered Flov R (Mcfd)		GOR (Cubic Fee Barrel)	ot/	Flowing Fluid Gravity G _m
	-							_	11				
-		_	<u> </u>	(OPEN FL	OW) (DELIV	ERABILITY	CALCUL	ATIONS			/D \2	= 0.20	 7
(P _c) ² =	:	(P _w)² =	· ;	P _q =		% (F	° - 14.4) +	14.4 =	:		(P _d) ²		<u>. </u>
(P _c) ² - (P _s) or (P _c) ² - (P _d)) ²	(P _c)²- (P _w)²	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1, or 2, and divide	P _c ² -P _w ²	Slop As:	ssure Curve be = "n" or signed ard Slope	nxl	og	Ant	tilog	Deliv Equals I	n Flow erability R x Antilog Acfd)
Ĺ													
Open Flow			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @	14.65 psia	a	
		ed authority, or								ort and th	nat he has		
the facts star	ited ther	ein, and that sa	aid report is true						ecember	MAR	10	, 20 \ \	o <u>14</u> .
		Witness (i	f any)	KC	C MIC	HITA	_/	SULI	UL For	Company	um	uf	
		For Comm		FE	B 23-2	.0 1 5 -			Che	cked by			

RECEIVED

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 G. Ihrig 31-20
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 Commission staff as necessary to corroborate this claim for exemption from testing.
Date: _12/22/14
FEB 23 2015 Signature:
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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.

W2056

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G. Ihrig 31-20

North Goodland

Goodland

None

July-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
7/1/2014		5 1	8	11	0	
7/2/2014		5 1	8	11	0	
7/3/2014		5 1	8	11	0	
7/4/2014		5 1	8	11	3	
7/5/2014		5 1	8	11	0	
7/6/2014		5 1	8	11	0	
7/7/2014		5 1	8	11	0	
7/8/2014		6 1	9	11	0	
7/9/2014		6 1	.9	11	0	
7/10/2014		6 1	9	11	0	
7/11/2014		6 1	9	11	0	
7/12/2014		6 1	.9	11	0	
7/13/2014		6 1	.9	11	0	
7/14/2014		6 1	.9	11	0	
7/15/2014		6 1	9	11	3	
7/16/2014		6 1	.9	11	0	
7/17/2014		5 1	.8	14	0	
7/18/2014		6 1	.9	11	0	
7/19/2014		6 1	9	11	0	
7/20/2014		6 1	9	11	0	
7/21/2014		6 1	9	11	0	
7/22/2014		5 1	8	10	0	
7/23/2014		5 1	8	10	0	
7/24/2014		5 1	8	10	0	
7/25/2014		5 1	8	10	0	
7/26/2014		5 1	8	10	0	
7/27/2014		5 1	8	10	0	
7/28/2014		5 1	8	10	0	
7/29/2014		6 i	9	11	0	shut in for state
7/30/2014	1	1 2	24	0	24	opened up
7/31/2014		5	8	10	0	

Total

325

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G. Ihrig 31-20

North Goodland

Goodland

None

August-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
8/1/2014		6	9	11	0	
8/2/2014		6	19	11	0	
8/3/2014		6	19	11	0	
8/4/2014		6	19	11	0	
8/5/2014		6	19	11	0	
8/6/2014		6	9	11	0	
8/7/2014		6	19	11	0	·
8/8/2014		6	9	11	3	
8/9/2014		6	9	11	0	
8/10/2014		6	9	11	0	
8/11/2014		6 1	9	11	0	
8/12/2014		6	19	11	0	
8/13/2014		6 1	9	12	0	
8/14/2014		6 1	9	12	0	
8/15/2014		6 1	9	12	0	
8/16/2014		6 1	9	12	0	
8/17/2014		6 1	9	12	0	
8/18/2014		6 1	9	12	0	
8/19/2014		6	9	12	0	
8/20/2014		6 1	.9	12	2	
8/21/2014		6 1	9	12	0	
8/22/2014		6	9	12	0	
8/23/2014		6 1	9	12	0	
8/24/2014		6 1	9	12	0	
8/25/2014		6 1	.9	12	0	
8/26/2014		5 1	.8	12	0	
8/27/2014		5 1	8	12	0	
8/28/2014		5 1	.8	12	0	
8/29/2014			8	12	0	
8/30/2014			.8	12	0	
8/31/2014			18	12	0	

Total 360

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G. Ihrig 31-20

North Goodland

Goodland

None

September-14

	Casing			H		REMARKS
DATE	PSI	STATIC	MCF	DO	OWN	(Maximum length 110 characters)
9/1/2014	4	5 18	3	12	0	
9/2/2014	:	5 18	3	12	0	
9/3/2014		5 18	3	12	0	
9/4/2014		5 18	3	12	0	
9/5/2014		5 18	3	12	0	
9/6/2014	4	5 18	3	12	0	
9/7/2014	4	5 18	3	12	0	
9/8/2014	:	5 18	3	12	0	
9/9/2014	:	5 18	3	11	0	
9/10/2014	:	5 18	3	11	0	
9/11/2014		5 18	3	11	0	
9/12/2014	:	5 18	3	11	0	
9/13/2014	:	5 18	3	11	0	
9/14/2014	;	5 18	3	11	0	
9/15/2014	:	5 18	3	11	0.5	
9/16/2014	4	5 18	3	11	0	
9/17/2014	(5 19	•	11	0	
9/18/2014	(5 19	•	11	0.5	
9/19/2014	(5 19)	11	0	
9/20/2014	(5 19)	11	0	
9/21/2014	(5 19	•	11	0	
9/22/2014	(5 19	•	11	0	
9/23/2014	(5 19	•	11	0	
9/24/2014	(5 19)	11	0	
9/25/2014	•	5 19)	11	0	
9/26/2014	(5 19)	11	0	
9/27/2014	(5 19)	11	0	
9/28/2014	(5 19)	11	0	
9/29/2014	(5 19)	11	0	
9/30/2014	(5 19)	11	0	
10/1/2014					0	

Total

338

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