## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	See Instruct	tions on Re	verse Side	9)				
□ Ор	en Flo	w I	BZT		Took Date				A DI	No. 15			·
De	liverab	ilty			Test Date 7/30/14	<del>7</del> :				No. 15 18 <b>1-2041</b> 8	-0000		
Company		sou	rces				Lease G. Ihrig					Well 1 24-16	Number
<del> </del>				Section 16				RNG (E.	RNG (E/W) 39W			Attributed	
Field Goodlan	d				Reservoir Niobrara					hering Conn Systems In			
3/24/20		e			Plug Bac 1183'	k Total Dept	th		Packer S	Set at			
Casing Si 2 7/8"	ize		Weight 6.5#		Internal E 2.441	Internal Diameter Set at 2.441 1183.69'			Perforations 1171'			то 1008'	
Tubing Si	ze		Weight		Internal Diameter Set at			Perforations			Го		
Type Con Single (					Type Flui Dry Ga	d Production	n		Pump Ur Flowin	nit or Traveling	Plunger?	Yes / (No	
Producing Annulus	-	(An	nulus / Tubing)		% C	arbon Dioxi	de		% Nitrog	en		Gas Gravity	- G <sub>g</sub>
Vertical D	epth(F	i)				Press Flang	sure Taps qe					Meter Run) ( 2"	(Prover) Size
Pressure	Buildu	<b>p</b> :	Shut in 7-29		0_14 at 3	:25	(AM) (PM)	Taken 7-	30	20	14 at 3	:35	(AM)(PM)
Well on L	ine:		Started 7-30	2	0 14 at 3	:35	(AM) (PM)	Taken 7-	31	20	14 at 4	:25	_ (AM)(PM)
			1			OBSERVE	D SURFAC				Duration o	f Shut-in_2	4 Hours
Static / Orifice		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure $(P_w) \text{ or } (P_l) \text{ or } (P_c)$ psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_a)$ psig psia		on Lic s)	quid Produced (Barrels)		
Shut-In					_		9	23.4					
Flow					_		5_	19.4			24	0	
						FLOW STR	EAM ATTE	IBUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Pro Mcfd		Circle one: Meter or over Pressure psia	Press Extension ✓ P <sub>m</sub> x ħ	Grav Fact	tor 1	Flowing Femperature Factor F <sub>11</sub>	Fa	riation actor = pv	Metered Flov R (Mcfd)		GOR Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
										10			
					(OPEN FLO	OW) (DELIV	ERABILITY	) CALCUL	ATIONS			$(P_a)^2 = 0$	207
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =_	;	P <sub>d</sub> =	9	% (1	P <sub>o</sub> - 14.4) +	14.4 =	:		$(P_d)^2 = _{-}$	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ 2. $P_c^2 - P_c^2$ vided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2., and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Sto As	essure Curve pe = "n" or ssigned lard Slope	n x	LOG	Antilo	。	Open Flow eliverability als R x Antilog (Mcfd)
						_							
Open Flo	<u> </u>		l	Mcfd @ 14.	RE neis		 Deliveral				 Mcfd @ 14	. 65 neia	
		iane	d authority, on			tates that h			o make th	_			wledge of
		~	in, and that sai				•			ecember	und tidt		, 20 14
			Witness (if a	unv)	KCC	S WIC			m	all:	UN DO	utin	uy_
			For Commis		E	<del>3 2 3 -</del> 20	)15				ked by		

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	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
	der Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
_	going pressure information and statements contained on this application form are true and
	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 G. Ihrig 24-16
gas well on the gr	ounds that said well:
(Check	one)
	is a coalbed methane producer
	is cycled on plunger lift due to water
$\Box$	is a source of natural gas for injection into an oil reservoir undergoing ER
$\Box$	is on vacuum at the present time; KCC approval Docket No
7	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	y to corroborate this claim for exemption from testing.
Date: 12/22/14	
	KCC WICHITA Signature: January Martiney  FEB 23 2015 Title: Production Assistant
	KCC WICHI IA Signature: //www.
	FFR 2 3 2015 Title: Production Assistant
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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.

W2164

Grihrig 24 16

North Goodland

Goodland

None

July-14

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

Total

279

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North Goodland

Goodland

None

August-14

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

Total 312

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G. Ihrig 24-16

North Goodland

Goodland

None

September-14

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

Total 308

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