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

Type Test	: en Flow	ASI		(	See Instruct	tions on Re	verse Side	9)			
De	liverabilty	/		Test Date 6/13/20					No. 15 -20428-01 <b>0</b> *	D	
Company		ources, Inc.			<u> </u>	Lease C. Ihrig				<del>-</del>	Well Number H
County Location Sherman NENW			Section TWP 7S			RNG (E/ 39W	W)		Acres Attributed		
Field Goodland			Reservoir Niobrara				nering Conne Systems Inc				
Completic 9/4/200				Plug Bac 3218'	k Total Dept	th		Packer S	et at		
Casing Size Weight			Internal E 4.000	Diameter		Set at Perforation 3218' 3147'			ns To 3162'		
Tubing Si NONE	ize	Weigh	1	Internal Diameter Set at			at	Perfor	ations	То	
Type Com Single (		(Describe) nal)		Type Flui Dry Ga	d Production	า		Pump Un Flowing	it or Traveling g	Plunger? Yes	No
Producing Annulus		Annulus / Tubing	)	% C	arbon Dioxi	de		% Nitroge	en	Gas Gra	avity - G <sub>g</sub>
Vertical D	epth(H)				Pres Flan	sure Taps <b>ge</b>				(Meter F 2"	Run) (Prover) Size
Pressure	Buildup:	Shut in 6-12	2 20	13 at 3	:20	(AM)(PM)	)Taken_6-	-13	20	13 at 3:30	(AM) (PM)
Well on L		Started 6-13	3 20	13 at 3		(AM) (PM)	•			13 at 4:20	(AM) (PM)
					OBSERVE	D SURFAC	E DATA			Duration of Shut-i	24 Hours
Static / Dynamic Property	Dynamic Size Prover Pressure in		Differential	Flowing Temperature t	Well Head Temperature t	Wellhead (P <sub>w</sub> ) or (F	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		ubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Shut-In		post (com)	,			psig 18	32.4	psig	psia		
Flow						6	20.4			24	0
		Circle one:			FLOW STR		RIBUTES				Flouring
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or  Prover Pressure psia  Press Extension Pm x h		i Gravity i		Flowing Femperature Factor F,,	mperature Fac		Metered Flov R (Mcfd)	GOR (Cubic Fed Barrel)	Flowing Fluid Gravity G_m
									13		
				(OPEN FL	OW) (DELIV	ERABILITY	') CALCUL	ATIONS		(P.)2	2 = 0.207
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> ) <sup>2</sup> =	:	$\dot{P}_{d} =$		% (	P <sub>c</sub> - 14.4) +	14.4 =	:	(P <sub>d</sub> ) <sup>2</sup>	
(P <sub>c</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slo  As	essure Curve pe = "n" - or ssigned dard Slope	1 2 2 1	og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flov		:	Mcfd @ 14.6	35 psia		Deliveral	nility			Mcfd @ 14.65 psi	a
		and authority and			states that h			o maka th		rt and that he ha	
	•	rein, and that sa		and correc	t. Executed RECEIVE	this the 2	6	day of No	-	Tranu mar ne na	, 20 <u>13</u>
		Witness (if		KANSAS (	CORPORATIO	ON COMMISS	SION	Kin	allford	empany at	Tuez
		For Commi	ssion	;	DEC 2 6	2013			Chec	ked 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 G. Ihrig 21-21H  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.  Signature:  Title: Production Assistant		
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Signature:		
Signature:		
Signature:		
Signature.	Date: 11/26/13	<u> </u>
Signature.		
Signature.		
Signature.		
Title: Production Assistant		Signature: January Mortung
		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 CORPORATION COMMISSION signed and dated on the front side as though it was a verified report of annual test results.

W2271 C. Ihrig 21-21H North Goodland Goodland None June-13

	Casing			HF	RS	REMARKS
DATE	PSI	STATIC	MCF	DO	OWN_	(Maximum length 110 characters)
6/1/2013	6	19	)	13	0	
6/2/2013	6	19	)	13	0	
6/3/2013	6	19	) . '	13	0	
6/4/2013	6	19	)	13	0	
6/5/2013	6	. 19	)	13	0	
6/6/2013	6	19	)	13	0	
6/7/2013	6	19	)	13	0	
6/8/2013	. 6	19	)	13	0	
6/9/2013	6	19	)	13	0	
6/10/2013	6	19	)	13	0	
6/11/2013	6	19	)	13	0	
6/12/2013	6	19	)	13	0	shut in
6/13/2013	18	31	l	0	24	opened up
6/14/2013	6	19	)	13	0	
6/15/2013	6	19	)	13	0	
6/16/2013	6	19	)	13	0	
6/17/2013	6	19	)	13	0	
6/18/2013	6	19	)	13	0	
6/19/2013	6	19	)	13	0	
6/20/2013	6	19	)	13	0	
6/21/2013	6	19	)	13	0	
6/22/2013	6	19	)	13	0	
6/23/2013	6	19	)	13	0	
6/24/2013	6	19	)	13	0	
6/25/2013	6	19	)	13	0	
6/26/2013	6	19	)	13	0	
6/27/2013	6	19	)	13	.0	
6/28/2013	6	19	)	13	0	
6/29/2013	6	19	)	13	0	
6/30/2013	6	. 19	)	13	0	
7/1/2013					0	

Total 377

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W2271 C. Ihrig 21-21H North Goodland Goodland None July-13

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOW	'N	(Maximum length 110 characters)
7/1/2013		6 1	9	13	0	
7/2/2013		6 1	9	13	0	
7/3/2013		6 1	9	13	0	
7/4/2013		6 1	9	13	0	
7/5/2013		6 1	9	13	0	
7/6/2013		6 1	9	13	0	
7/7/2013		6 1	9	13	0	
7/8/2013		6 1	9	13	0	
7/9/2013		6 1	9	13	0	
7/10/2013		6 1	9	13	0	
7/11/2013		6 1	9	13	0	
7/12/2013		6 1	9	13	0	
7/13/2013		6 1	9	13	0	
7/14/2013		6 1	9	13	0	
7/15/2013		6 1	9	13	0	cal
7/16/2013		6 1	9	13	6.5	
7/17/2013		6 1	9	11	0	
7/18/2013		6 1	9	13	0	
7/19/2013		6 1	9	13	0	
7/20/2013		6 1	9	13	0	
7/21/2013		6 1	9	13	0	
7/22/2013		6 1	9	13	0	
7/23/2013		6 1	9	13	0	
7/24/2013		7 2	20	13	0	
7/25/2013		7 2	20	13	0	
7/26/2013		7 2	20	13	0	
7/27/2013		7 2	20	13	0	
7/28/2013		7 2	20	13	0	
7/29/2013		7 2	20	13	0	
7/30/2013		7 2	20	13	0	
7/31/2013			20	13	0	

Total 401

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