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

Type Test	:		<b>W</b> SI		(	See Instruc	ctions on Re	verse Side	)				
Copen Flow				Test Date	Test Date: API No. 15								
		ilty			4/21/11			<del></del>	181	-20461-01-0			
Company Rosewoo		sou	rces, Inc.				Lease C. Ihriç	9			۷ 32-21۱	Vell Number -	
County Shermar	1		Locati SWNE		Section 21		TWP 7\$		RNG (E/ 39W	W)		cres Attributed	
Field Goodlan	d d		<u> </u>	<u> </u>	Reservoir Niobrara					hering Conn Systems In			
Completic 9/13/20		е	·		Plug Bac 3264'	k Total Dep	oth	·	Packer S	let at			
Casing Si 4 1/2"	ze		Weigh 10.5#		Internal E 4.000	Diameter	Set 326		Perfo 317	rations 9'	то 3194'		
Tubing SI	ZĐ		Weigh	· · · · · · · · · · · · · · · · · · ·	Internal [	Internal Diameter Set at			Perfo	rations	То		
Type Con Single (					Type Flui Dry Ga	d Productio	on .		Pump Ur Flowin	nit or Traveling	Plunger? Yes	No	
			nulus / Tubing	)	_ ——	arbon Dlox	ilde		% Nitrog	<del>-</del>	Gas Gra	ivity - G	
Annulus					<del>_</del>						.6		
Vertical D 3292'	epth(F	1)				Pres Flan	ssure Taps 1ge				(Meter F	lun) (Prover) Size	
Pressure	Bulldu	p:	Shut in 4-2	)2	0 11 at 1	2:10	(AM (PM)	Taken_4-	21	20	11 at. 12:25	(AM) (PM)	
Well on L	ine:		Started 4-2	<u> </u>	0 at	2:25	. (AM)(PM)	Taken 4-	22	20	11 at 1:10	(AM) (PM)	
						OBSERVE	ED SURFAC	E DATA			Duration of Shut-i	24 Hours	
Static / Dynamic Property	Orifi Siz (inch	0	Circle ons: Meter Prover Pressu psig (Pm)	Pressure Differential In Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Wellhead (P <sub>w</sub> ) or (F	Pressure	Wellhe	ubing ad Pressure (P <sub>1</sub> ) or (P <sub>2</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			pag (i iii)	menes 11 <sub>2</sub> 0			psig 6	20.4	psig	psia			
Flow							7	21.4			24	0	
	<del>-</del>	<u>-</u> -			<del></del>	FLOW ST	REAM ATTR	IBUTES	-				
Plate Coeffied (F <sub>b</sub> ) (F Mold	lent ,)	Pro	Circle one: Meter or ever Prossure psla	Press Extension  P <sub>m</sub> x h	Grav Fac F <sub>e</sub>	tor	Flowing Temperature Factor F <sub>tt</sub>	Fa	iation ctor	Metered Flov R (Mcfd)	y GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G_	
						ĺ	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			20			
	•				(OPEN FL	OW) (DELIV	VERABILITY	) CALCUL	ATIONS		/D.\2	- 0.007	
(P <sub>a</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> ≈		,% (	- P <sub>e</sub> - 14.4) +	14.4 =	:	(P <sub>a</sub> ) <sup>2</sup>	= 0.207 =	
(P <sub>a</sub> ) <sup>2</sup> - (F or (P <sub>a</sub> ) <sup>2</sup> - (F	-	(F	)²)²- (P")²	1. P P. 2  2. P P. 2  thirded by: P P. 3	i.OG of formula 1. or 2. and divide	P.*. P.*	Slo	essure Curve pe = "n" - or signed tard Slope	nxl	.og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
								<del></del>		_			
Open Flor				Mcfd @ 14.			Deliverat		-		Mcfd @ 14.65 psia		
				behalf of the					_	e above repo ecember	rt and that he has	knowledge of	
			., 00							11	(no 1)	(J )	
			Witness (i	any)			:	-	ce	MUJ.		RECEIVED	
			For Comm	asion		<del></del>	-			Che	cked by	PR 2 4 2012	

KCC WICHITA

exempt status under Rule and that the foregoing pro correct to the best of my k of equipment installation a	Ity of perjury under the laws of the state of Kansas that I am authorized to request K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  essure information and statements contained on this application form are true and mowledge and belief based upon available production summaries and lease records and/or upon type of completion or upon use being made of the gas well herein named.  e-year exemption from open flow testing for the C. Ihrig 32-21H
gas well on the grounds th	nat said well:
is cycle is a so is on verification is not constitution  I further agree to support	albed methane producer ed on plunger lift due to water curce of natural gas for injection into an oil reservoir undergoing ER cacuum at the present time; KCC approval Docket No capable of producing at a daily rate in excess of 250 mcf/D  ply to the best of my ability any and all supporting documents deemed by Commission roborate this claim for exemption from testing.
	Signature:

## 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.

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W2270 Calhrig 32-24H North Goodland Goodland None

April-11

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
4/1/2011		6	19	21	0	
4/2/2011		6	19	21	0	
4/3/2011		6	19	20	0	
4/4/2011		6	19	20	0	
4/5/2011		6	19	20	0	
4/6/2011		6	19	20	0	
4/7/2011		6	19	20	0	
4/8/2011		6	19	20	0	cal
4/9/2011		6	19	14	0	
4/10/2011		6	19	20	0	
4/11/2011		6	19	20	0	
4/12/2011		6	19	20	0	
4/13/2011		5	18	21	0	
4/14/2011		5	18	20	0	
4/15/2011		5	18	20	0	
4/16/2011		6	19	19	0	
4/17/2011		6	19	19	0	
4/18/2011		6	19	19	0	
4/19/2011		6	19	19	0	
4/20/2011		6	19	19	0	shut in for test
4/21/2011		6	19	0	24	opened up
4/22/2011		7	20	21	0	
4/23/2011		7	20	21	0	
4/24/2011		7	20	20	0	
4/25/2011		6	19	20	0	
4/26/2011		6	19	19	0	bp
4/27/2011		6	19	19	0	
4/28/2011		6	19	19	0	
4/29/2011		6	19	19	0	
4/30/2011		7	20	19	0	
5/1/2011		0	0	0	0	

Total 569

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W2270
Galhrig 32-21H
North Goodland
Goodland
None
May-11

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
5/1/2011		6	19	19	0	
5/2/2011		6	19	18	0	
5/3/2011		6	19	18	0	
5/4/2011		6	19	18	0	
5/5/2011		6	19	18	0	
5/6/2011		6	19	18	0	
5/7/2011		7	20	18	0	
5/8/2011		7	20	18	0	
5/9/2011		7	20	16	0	
5/10/2011		9	22	22	4	
5/11/2011		8	21	26	0	
5/12/2011		8	21	25	0	
5/13/2011		8	21	24	0	
5/14/2011		7	20	23	0	
5/15/2011		7	20	23	0	
5/16/2011		7	20	23	0	
5/17/2011		7	20	22	0	
5/18/2011		7	20	22	0	
5/19/2011		7	20	22	0	
5/20/2011		7	20	22	0	
5/21/2011		7	20	22	0	
5/22/2011		7	20	22	0	
5/23/2011		7	20	21	0	
5/24/2011		7	20	21	0	
5/25/2011		7	20	21	0	
5/26/2011		7	20	21	0	
5/27/2011		7	20	21	0	
5/28/2011		7	20	21	0	
5/29/2011		7	20	21	0	
5/30/2011		7	20	21	0	
5/31/2011		8	21	20	1	

Total 647

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KCC WICHITA

W2270

C: Ihrig 32-21H

North Goodland

Goodland

None

June-11

	Casing			Н	RS	REMARKS
DATE	PSI	STATIC	MCF	D	OWN	(Maximum length 110 characters)
6/1/2011		7	20	21	0	
6/2/2011		8	21	21	3.5	
6/3/2011		8	21	23	0	
6/4/2011		7	20	22	0	
6/5/2011		7	20	22	0	
6/6/2011		8	21	18	7	
6/7/2011		9	22	21	0	
6/8/2011		9	22	21	0	
6/9/2011		8	21	22	0	
6/10/2011		8	21	22	0	
6/11/2011		8	21	22	0	
6/12/2011		8	21	22	0	
6/13/2011		8	21	21	0	
6/14/2011		8	21	22	0	
6/15/2011		7	20	22	0	
6/16/2011		7	20	21	0	
6/17/2011		7	20	21	0	
6/18/2011		7	20	21	0	
6/19/2011		7	20	21	0	
6/20/2011		7	20	21	0	
6/21/2011		8	21	20	2	
6/22/2011		8	21	21	2	
6/23/2011		8	21	22	0	
6/24/2011		8	21	21	0	
6/25/2011		8	21	22	0	
6/26/2011		8	21	21	0	
6/27/2011		8	21	21	0	
6/28/2011		8	21	22	0	
6/29/2011		8	21	21	0	
6/30/2011		8	21	20	0	
7/1/2011		0	0	0	0	

Total 638