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

Type Test	t:				(	See Instruc	tions on Re	verse Side	)				
Open Flow			Tark Date: ADI No. 15										
Deliverabilty			Test Date: API No. 15 9/30/2015 181-20536-00 <b>£</b>					0					
Company Rosewood Resources, Inc.					Lease Philbrick					Well Number 22-09			
County Location Sherman SENW/4			Section 9	TWP 9S				Acres Attributed 80					
Field Goodand			Reservoir Niobrara		Gas Gathering Connec Branch Systems Inc.								
Completion 6/17/08	on Date				Plug Bac 1228'	th	Packer Set at						
Casing S 2 7/8"	Casing Size Weight				Internal D 2.441	Diameter	Set at 1228'		Perforations 1056'		то 1086'		
Tubing Size Weight NONE			l ·	Internal Diameter			Set at Perforations			То			
Type Con Single (					Type Fluid Production DryGas				Pump Ur flowing	nit or Traveling	Plunger? Yes	No	
Producing		(Ann	nulus / Tubing	)	% Carbon Dioxide			% Nitrog	en	Gas Gr .6	avity - G <sub>g</sub>		
Vertical E					Pressure Taps					<u> </u>		Run) (Prover) Size	
1250′						Flan	ge	_			2"	<u>-</u>	
Pressure	Buildup	: 8	Shut in9-36	) 2	20 15 at 8		~				15 at 8:35	(AM)(PM)	
Well on L	.ine:	5	Started 10-	<u> </u> 2	15 at 8	:35	(AM)(PM)	Taken 10	)-2	20	15 at 9:25	(AM)(PM)	
					_	OBSERVE	D SURFAC	E DATA	_		Duration of Shut-	in_24 Hou	
Static / Orifice Dynamic Size		Meter Differentia		Flowing   Well Head     Temperature   Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_2)$		Duration (Hours)	Liquid Produced		
Property	(inche	6)	psig (Pm)	Inches H <sub>2</sub> 0	t	t	psig	ps <u>ia</u>	psig	psia		<u> </u>	
Shut-In							5	19.4					
Flow							1	15.4			24	0	
	<del></del>		_			FLOW STE	REAM ATTR	IBUTES_					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> x h	Pactor		Flowing Temperature Factor F <sub>n</sub>	Deviation Factor F <sub>p</sub> ,		Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	l (Gravity	
										15		<u>_</u> _	
					(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		(B.)	²= 0.207	
(P <sub>c</sub> ) <sup>2</sup> =		.:	$(P_w)^2 = $	:	P <sub>d</sub> =		% (F	<sup>2</sup> 。- 14.4) +	14.4 =	:		² =	
(P <sub>c</sub> ) <sup>2</sup> - (I or (P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(P	(c)2- (P <sub>w</sub> )2	1. P <sub>c</sub> <sup>2</sup> - P <sub>b</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slop	ssure Curve pe = "n" - or signed ard Slope	nx	LOG	Antilog	Open Flow Deliverability Equals R x Antilo (Mcfd)	
	-			divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	- <u>Dy.</u>		Jiana	ard Glopo				-	
		-											
Open Flo	w			Mcfd @ 14	.65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia	
The	undersig	ned	authority, or	behalf of the	Company, s	states that h	ie is duly au			•	ort and that he ha	s knowledge of	
the facts s	tated th	erei	n, and that sa	id report is tru	e and correc	t. Executed	this the 2	2	day of $\frac{D}{D}$	ecember		, <sub>20</sub> <u>15</u>	
					K	CC W	ICHITA	4	aw		Mail	wy	
			Witness (if	any)			4.			For	Company		
			For Comm	ssion		APR 87	ZU10 -			Che	cked by		

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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 Philbrick 22-09  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:
Signature: Censul Wattury  Title: Production Assistant  APR 0 7 2016  RECEIVED

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.

W2577



South Goodland

Goodland

None

September-15

	Cooina	<del></del> _		HRS	REMARKS
DATE	Casing	EATTO MOD			
DATE		TATIC MCF		DOWN	(Maximum length 110 characters)
9/1/2015	1	14	15	0	
9/2/2015	1	14	15	0	
9/3/2015	1	14	15	0	
9/4/2015	1	14	15	0	
9/5/2015	1	14	15	0	
9/6/2015	1	14	15	0	
9/7/2015	1	14	15	0	
9/8/2015	1	14	15	0	
9/9/2015	1	14	15	0	
9/10/2015	1	14	15	0	
9/11/2015	1	14	15	0	
9/12/2015	1	14	16	0	
9/13/2015	1	14	15	0	
9/14/2015	1	14	15	0	
9/15/2015	1	14	15	0	
9/16/2015	1	14	15	0	
9/17/2015	1	14	15	0	
9/18/2015	1	14	15	0	
9/19/2015	1	14	15	0	
9/20/2015	1	14	16	0	
9/21/2015	1	14	15	0	
9/22/2015	1	14	15	0	
9/23/2015	1	14	15	0	
9/24/2015	1	14	15	0	
9/25/2015	1	14	16	0	
9/26/2015	1	14	16	0	
9/27/2015	1	14	16	0	
9/28/2015	1	14	15	0	
9/29/2015	2	15	1	22	
9/30/2015	5	18	0	24	24 hr shut in pressure for state
10/1/2015	0	0	0	0	

Total 426

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Philbrick 22-09

South Goodland

Goodland

None

October-15

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
10/1/2015	6	19	0	24	
10/2/2015	5	18	4	7	
10/3/2015	4	17	14	0	
10/4/2015	3	16	16	0	
10/5/2015	3	16	17	0	
10/6/2015	3	16	17	0	
10/7/2015	2	15	18	0	
10/8/2015	2	15	16	2	
10/9/2015	3	16	15	2	
10/10/2015	2		16	2	
10/11/2015	2		18	0	
10/12/2015	2		15	4	
10/13/2015	2		17	0	
10/14/2015	2	15	17	0	
10/15/2015	2	15	15	0	
10/16/2015	2	15	15	0	
10/17/2015	2	15	16	0	
10/18/2015	2	15	16	0	
10/19/2015	2	15	16	0	
10/20/2015	2	15	16	0	
10/21/2015	2		16	0	
10/22/2015	2	15	16	0	
10/23/2015	2		16	0	
10/24/2015	2		16	0	
10/25/2015	2		16	0	
10/26/2015	2		16	0	
10/27/2015	2		16	0	
10/28/2015	2		16	0	
10/29/2015	2		16	0	
10/30/2015	2	15	16	0	
10/31/2015	1	14	16	0	

Total 470

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W2577 Philbrick 22-09

South Goodland

Goodland

None

November-15

	Casing		Н	IRS	REMARKS
DATE	PSI	STATIC MCI	F D	OWN	(Maximum length 110 characters)
11/1/2015	1	14	16	0	
11/2/2015	1	14	16	0	
11/3/2015	1	14	16	0	
11/4/2015	1	14	16	0	
11/5/2015	1	14	16	0	
11/6/2015	1	14	16	0	
11/7/2015	1	14	16	0	
11/8/2015	1	14	16	0	
11/9/2015	1	14	16	0	
11/10/2015	2	15	14	0	
11/11/2015	1	14	16	0	
11/12/2015	1	14	16	0	
11/13/2015	1	14	16	0	
11/14/2015	1	14	15	0	
11/15/2015	1	14	15	0	
11/16/2015	1	14	15	0	
11/17/2015	1	14	15	0	
11/18/2015	1	14	15	0	
11/19/2015	1	14	14	0	
11/20/2015	1	14	14	1	
11/21/2015	1	14	16	0	
11/22/2015	1	14	16	0	
11/23/2015	I	14	15	0	
11/24/2015	I	14	15	0	
11/25/2015	1	14	16	0	
11/26/2015	1	14	16	0	
11/27/2015	1	14	13	0	
11/28/2015	1	14	15	0	
11/29/2015	1	14	17	0	
11/30/2015	1	14	16	0	
12/1/2015		0	0	0	

Total 464

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