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

Type Tes	t:		***		(	See Instruc	ctions on Re	everse Side	e)			
Op	oen Flo	w J			<b>T</b> . <b>D</b> .				4.0	N= 45		
De	eliverat	oilty		•	Test Date 6/12/20					No. 15 <b>1-20415-0</b> 0	000	
Company		esou	rces, Inc.				Lease Duell		•		14-21	Well Number
<del></del>				Section 21				RNG (E	/W)	•	Acres Attributed 80	
Field					Reservoir Niobrara				thering Conn Systems In			
Completion 6/3/200		te			Plug Bac 1186'	k Total Dep	oth		Packer \$	Set at		
Casing Size Weight I			Internal E 4.000	Internal Diameter Set at 4.000 1186'			Perfo 101	orations <b>0'</b>	то 1040'			
Tubing S	Tubing Size Weight				Internal [	Internal Diameter Set at			Perfo	rations	То	•
Type Cor Single (					Type Flui Dry Ga	d Productions	on		Pump U	nit or Traveling	g Plunger? Yes	No
Producin	g Thru	(Anı	nulus / Tubin	g)	% C	arbon Diox	ride		% Nitrog	jen	Gas Gr	avity - G <sub>g</sub>
Annulu											.6	
Vertical E	Depth(I	H)					ssure Taps				•	Run) (Prover) Size
1220'						Flar					2"	
Pressure	Buildu		Shut in <u>6-1</u>		0 13 at 2		_				13 at 2:50	(AM) (PM)
Well on L	Well on Line: Started 6-12 20			0 <u>13</u> at <u>2</u>	13 at 2:50 (AM) (PM) Taken 6-				20	13 <sub>at</sub> 3:40	(AM) (PM)	
						OBSERVE	ED SURFAC	E DATA			Duration of Shut-	in 24 Hours
Static / Dynamic			Flowing Temperature	Well Head Temperature	Wellhead	Casing Wellhead Pressure		Tubing ead Pressure	Duration (Hours)	Liquid Produced (Barrels)		
Property (inches		ies)	psig (Pm)	Inches H <sub>2</sub> 0	t ·	t	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		$(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		(Flours)	\
Shut-In							15	29.4				
Flow							8	22.4			24	
<del>[</del>		· ·····		Ţ	<del></del>	FLOW ST	REAM ATTE	RIBUTES				
Plate Coefficeient (F <sub>b</sub> ) (F <sub>p</sub> ) F Mcfd		Pro	Circle one:  Meter or  trover Pressure psia  Press Extension  Pmxh		Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>f1</sub>	emperature Factor F		Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity
										28		
				1	-		/ERABILITY	•				<sup>2</sup> = 0.207
(P <sub>c</sub> ) <sup>2</sup> =		<u>=:</u>	(P <sub>w</sub> )² =	Choose formula 1 or 2	<b>P</b> <sub>d</sub> =		<u> </u>	P <sub>c</sub> - 14.4) +		<del></del> :	(P <sub>d</sub> )	² <b>=</b>
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>			LOG of formula 1. or 2. and divide by:  P.2. P.2 w		Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				. e w								
Open Flo	w			Mcfd @ 14.	 65 psia		Deliveral	oility			Mcfd @ 14.65 psi	<u> </u> a
The	unders	igned	d authority, o	n behalf of the	Company, s	states that I	he is duly a	uthorized to	o make tl	ne above repo	ort and that he ha	s knowledge of
		-		aid report is true	and correc	t. Executed	this the 2	6		•		, 20 13
				K	ANSAS CORF	PORATION C	NOISSIIVIIQ:	6	Xev	inill	Moute	irly
			Witness (	ir ariy)	DE	C 262	013			ror (	от <b>рапу</b>	/
*, *, *			For Comm	nission	CONSE	ERVATION D WICHITA, K	IVISION			Che	cked by	

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 Duell 14-21
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:11/26/13
$\cdot$
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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KANSAS CORPORATION COMMISSION

W2186
Duell 14-21
North Goodland
Goodland
None
June-13

	Casing			HRS		REMARKS
DATE_	PSI	STATIC	MCF_	DOWN		(Maximum length 110 characters)
6/1/2013		8	21	28	0	
6/2/2013	V	8	21	28	0	
6/3/2013		8	21	28	0	
6/4/2013		8	21	28	0	
6/5/2013		8	21	28	0	
6/6/2013		8	21	28	0	
6/7/2013		8	21	28	0	
6/8/2013		8	21	28	0	
6/9/2013		8	21	28	0	
6/10/2013		8	21	28	0	
6/11/2013		8	21	27	0	shut in
6/12/2013		15	28	0	24	opened up
6/13/2013		8	21	27	0	
6/14/2013		8	21	27	0	
6/15/2013		8	21	27	0	
6/16/2013		8	21	27	0	
6/17/2013		8	21	27	0	
6/18/2013		8	21	27	0	
6/19/2013		8	21	28	0	
6/20/2013		8	21	28	0	
6/21/2013		8	21	28	0	
6/22/2013		8	21	28	0	
6/23/2013		8	21	28	0	
6/24/2013		8	21	28	0	
6/25/2013		8	21	27	0	
6/26/2013		8	21	27	0	
6/27/2013		8	21	27	0	
6/28/2013		8	21	27	0	
6/29/2013		8	21	27	0	
6/30/2013		8	21	27	0	
7/1/2013					0	

Total 799

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W2186 Duell 14-21 North Goodland Goodland None July-13

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

Total 854

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