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

Type Test					(	See Instruc	tions on Re	verse Side	9)				
Op	en Flow	ASI			•• · · · ·								
De	liverabil	ty			Test Date 6/30/14	<b>)</b> :				I No. 15 1 <b>-</b> 20399-00 <b>0</b>	6		
Company		ources					Lease Armstro	ong			41-12	Well Nu	ımber
County Sherma	n	Loc NEN	ation E		Section 12		TWP 9S		RNG (E	/W)		Acres A	Attributed
Field Goodlan	nd				Reservoir Niobrara					thering Conn Systems In			
Completic 2/18/200					Plug Bac 1191'	k Total Dep	th		Packer :	Set at			
Casing S 2 7/8"	ize	We 6.5	_		Internal E 2.441	Diameter	Set 119		Perfo 928	rations	то 960'		
Tubing S	ize	We	ght		Internal E	Diameter	Set	at	Perfo	orations	То		
none	on letien	(Describe)			Time Elvi	d Droductio			Dumin II	nit or Traveling	Plunger? Yes	/ (No.)	
Single (	Conve	entional)			Dry Ga				Flowir	ng			
Producing Annulus	-	Annulus / Tut	ing)		% C	arbon Dioxi	ide		% Nitro	gen	Gas Gra .6	avity - (	3,
Vertical E						Pres	sure Taps					Run) (P	rover) Size
960'						Flan					2"		
Pressure	Buildup	. Silut III —	-29	2	0 14 at 9	:15	(PM)	Taken 6-	30		14 at 9:25	(	(AM) (PM)
Well on L	.ine:	Started 6	-30	2	o <u>14</u> at <u>9</u>	:25	(AM) (PM)	Taken 7-	1	20	14 at 10:15	(	(AM)(PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	<sub>in</sub> _24	Hours
Static / Dynamic	Orific Size	Mete		Pressure Differential in	Flowing Temperature	Well Head Temperature	Wellhead	sing   Pressure   P <sub>c</sub> ) or (P <sub>c</sub> )	Wellhe	Tubing ead Pressure or (P <sub>1</sub> ) or (P <sub>2</sub> )	Duration (Hours)		d Produced Barrels)
Property	(inche	s) psig (Pi		Inches H <sub>2</sub> 0	t	t	psig	psla	psig	psia psia	(100.0)	<u> </u>	Surreis,
Shut-In							13	27.4				ļ.—	
Flow							0	14.4			24	0	
					<del></del>	FLOW STF	REAM ATT	RIBUTES		<u> </u>			
Plate Coeffied (F <sub>b</sub> ) (F Mcfd	ient p)	Circle one: Meter or Prover Pressure psia	,	Press Extension P <sub>m</sub> xh	Grav Fact F <sub>c</sub>	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	iation ctor <sub>pv</sub>	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>
										1			
	_			_	(OPEN FL	OW) (DELIV	'ERABILITY	) CALCUL	ATIONS		(P ):	<sup>2</sup> = 0.2	207
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> )	² =	;	$P_d =$		% (	P <sub>c</sub> - 14.4) +	14.4 = _	:	(P <sub>d</sub> )		
(P <sub>c</sub> ) <sup>2</sup> - (I		$(P_c)^2 - (P_w)^2$	Che	nosa formula 1 or 2 1. P <sub>o</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>o</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> ded by: P <sub>o</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>	Sic As	essure Curve pe = "n" - or ssigned tard Slope	l n x	rog	Antilog	Del Equals	oen Flow iverability S R x Antilog (Mcfd)
				-			_			-			
Open Flo	w			Mcfd @ 14.	65 psia		Delivera	oility			Mcfd @ 14.65 psi	a	
	-	•					-				ort and that he ha		
the facts s	tated th	erein, and tha	said	report is true	e and correc		this the <u>4</u> CWIC			December	Mate	, , ,	20 <u>14</u> .
		Witne	s (if ar	y)			3 2 3 2	/	/C/V	For	Company Company	¥-	
		For Co	mmissi	on				- 135		Che	cked by		-

RECEIVED

	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator_Rosewood Resources, Inc.
	oing pressure information and statements contained on this application form are true and
_	of my knowledge and belief based upon available production summaries and lease records
	lation and/or upon type of completion or upon use being made of the gas well herein named.
` <b>.</b>	st a one-year exemption from open flow testing for the Armstrong 41-12
	unds that said well:
(Check o	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
_	to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: _12/21/14	
!	KCC WICH!TA 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.

W443 Armstrong 41-12 South Goodland Goodland None June-14

	Casing			HRS	REMARKS
DATE	PSI	STATIC M	ICF	DOWN	(Maximum length 110 characters)
6/1/2014	19	32	0	0	<del></del>
6/2/2014	19	32	0	0	opened up
6/3/2014	2	15	1	0	
6/4/2014	2	15	1	0	
6/5/2014	2	15	1	0	shut in
6/6/2014	2	15	0	0	
6/7/2014	15	28	0	0	
6/8/2014	16	29	0	0	
6/9/2014	19	32	0	0	opened up
6/10/2014	2		1	0	
6/11/2014	2		1	3.5	
6/12/2014	2		1	0	
6/13/2014	2		1	0	
6/14/2014	2	15	1	0	
6/15/2014	2	15	1	0	
6/16/2014	2	15	1	0	
6/17/2014	2	15	1	0	
6/18/2014	2	15	1	0	
6/19/2014	2	. 15	1	0	
6/20/2014	2		0	0	
6/21/2014	2		0	0	
6/22/2014	2		0	0	
6/23/2014	2		0	0	
6/24/2014	2	: 15	0	0	
6/25/2014	2		0	0	
6/26/2014	2		0	0	
6/27/2014	2		0	0	
6/28/2014	2	15	0	0	
6/29/2014	2	15	0	21	
6/30/2014	13	26	0	24	
7/1/2014			_	0	

Total 13

KCC WICHITA FEB 23 2015 RECEIVED

W443 Armstrong 41-12 South Goodland Goodland None July-14

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

Total 1

KCC WICHITA FEB 2 3 2015 RECEIVED

W443 Armstrong 41-12 South Goodland Goodland None August-14

e e , ⊱

	Casing		HR	s	REMARKS		
DATE _	PSI _	STATIC MC	F DO	WN	(Maximum length 110 characters)		
8/1/2014		14	0	0			
8/2/2014	1	14	0	0			
8/3/2014	1	14	0	0			
8/4/2014	1	14	0	0			
8/5/2014	]	14	0	0			
8/6/2014	•	l 14	0	0			
8/7/2014	j	1 14	0	0			
8/8/2014	1	l 14	0	0			
8/9/2014	1	14	0	3			
8/10/2014		14	0	0			
8/11/2014	1	l 14	0	0			
8/12/2014	1	l 14	0	0			
8/13/2014	1	14	0	0			
8/14/2014	1	14	0	0			
8/15/2014	]	l 14	0	0			
8/16/2014	1	14	0	0			
8/17/2014	1	14	0	0			
8/18/2014	1	14	0	0			
8/19/2014	1	l 14	0	0			
8/20/2014	j	14	0	0			
8/21/2014	]	14	0	0			
8/22/2014	1	l 14	0	0			
8/23/2014		14	0	0			
8/24/2014	1	14	0	0			
8/25/2014	1	14	0	0			
8/26/2014		14	0	0			
8/27/2014	]	14	0	0			
8/28/2014	]	l 14	0	0			
8/29/2014	•	14	0	0			
8/30/2014	1	I 14	0	0			
8/31/2014	,	14	0	0			

Total 0

KCC WICH!TA FEB 2 3 2015 RECEIVED