KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t;	-			(See Instruct	tions on Re	everse Side)				
] Op	en Flo	w 🎉	ASI		Test Date				ADI	No. 15			
	liverab				4/13/11) .				-20494-01 ~	00		
Company		sou	rces, Inc.				Lease Armstn	ong			14-31	Well Number	
County Location Sherman SWSW			on .	Section 31			TWP RNG (E/W) 8S 39W				Acres Attributed 80		
Fleid Goodlan	nd				Reservoli Niobrara					hering Conne Systems Inc			
Completion 1/31/200		e		_	Plug Bac 3377'	k Total Dept	th	•	Packer S	Set at			
Casing S 4 1/2"	ize		Welght 10.5#		Internal (4.000	Diameter	Set 337		Perfo 331	rations O'	то 3325'		
Tubing S NONE	lze		Weigh	· · · · · · · · · · · · · · · · · · ·	Internal [Diameter	Set	at	Perfo	rations	То	_	
Type Cor Single (Type Flui Dry Ga	d Production	n		Pump Ur Flowin		Plunger? Yes	No	
Producing	_	(An	rulus / Tubing	<u>, </u>	% C	arbon Dioxi	de		% Nitrog	en	Gas Gr .6	avity • G _g	
Vertical D	Depth(H	1)	 			Pres	sure Taps Q0				-	Run) (Prover) Size	
Pressure	Buildu	p:	Shut in .4-1	2 20	11 at 1			Taken 4-	13	20	11 _{at} 10:25	(AM)(PM)	
Well on L	.ine:		Started <u>4-13</u>	20	11 at 1						11 at 11:15	(PM)	
			•			OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hours	
Static / Orifice Gircle one: Dynamic Size Property (inches) Prover Pressure psig (Pm)		Pressure Differentiat in Inches H ₂ 0	terentiat Flowing Well Head Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Welihead Pressure (P _w) or (P ₁) or (P ₀) psig psia		Duration (Hours)	Liquid Produced (Barrels)			
Shut-In				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			O	14.4	psig	psia			
Flow							1	15.4			24	0	
				======		FLOW STR		RIBUTES					
Plate Coeffied (F _k) (F Mote	ient	Pro	Circle one: Meter or over Pressure psia	Prese Extension √ P _m x h	Grav Fac F	tor 1	Flowing Temperature Factor F ₁₁	Fa	lation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravity	
										8			
(P _e) ² = _			(P _w) ² =		(OPEN FL	OW) (DELIV		/) CALCUL P _e - 14.4) +		•	(P,) (P,)	² = 0.207	
· •, <u> </u>	- ::			Choose formule 1 or 2:	Ī			essure Curve	1 .		· •/		
(P _a) ² - (I or (P _a) ² - (I	P _a)*	(F	° _e)² - (P _w)²	1. P. P. P. P. 2. P.	LOG of formula 1. or 2. and divide by:	P.*- P.2	Šid A	ope = "n" - or ssigned dard Slope	nxl	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w		_	Mcfd @ 14.0	65 psia		Delivera	blity		ļ	McId @ 14.65 ps	la	
		-	-	behalf of the				ιο		ecember	rt and that he ha	as knowledge of, 20	
	<u> </u>		Witness (ii	any)				90	an	WUL_Force	GCU OMPANY	W PEOPE (F	
	_		For Comm	esion					····	Chec	ked by	RECEIVED	

APR 2 4 2012

l de	eclare 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.
	t 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 equip	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
1 he	reby request a one-year exemption from open flow testing for the Armstrong 14-31H
gas wel	ll 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
	_
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissi
staff as	necessary to corroborate this claim for exemption from testing.
Date: _1	2/28/11
	Signature: Danuell Gevel
	Signature:
	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 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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W2430 Armstrong 14-31H South Goodland Goodland None

April-11

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

Total 235

W2430 Armstrong 14-31H

South Goodland

Goodland

None

May-11

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

Total 248

W2430 Armstrong 14-31H South Goodland

Goodland

None

June-11

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

Total 253