KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instruct	tions on Re	verse Side)					
Open Flow			Test Date: API No. 15										
	eliverabili	ty ————————————————————————————————————		5/30/13				181	-20494-01 0	O			
Company Rosewood Resources, Inc.					Lease Armstrong					Well Number 14-31H			
County Location Sherman SWSW			Section TWP 31 8S			RNG (E/W) Acres Attribute 39W 80			Acres Attributed 30				
								Gas Gathering Connection Branch Systems Inc.					
Completion Date 1/31/2007				Plug Back Total Depth 3377'				Packer S	et at				
Casing Size Weight 4 1/2" 10.5#			Internal Diameter Set at 4.000 3377'			Perforations 3310'		то 3325'					
Tubing Si	Tubing Size Weight			Internal Diameter Set at			Perfo	rations	То				
	Type Completion (Describe) Single (Horizonal)				••				Pump Unit or Traveling Plunger? Yes No Flowing				
Producing	g Thru (Annulus / Tubi	ng)	% C	% Carbon Dioxide				en	Gas Gra	Gas Gravity - G _g		
Annulus										.6			
Vertical D	Depth(H)				Flan	sure Taps ge				(Meter F	Run) (Prover) Size		
Pressure	Buildup	: Shut in5-	29 2	0 13 at 8	:15	(AM)(PM)	Taken_5-	30	20	13 at 8:25	(AM)(PM)		
Well on L	.ine:	Started 5-	30 2	0 <u>13</u> at <u>8</u>	:25	(PM)	Taken 5-	31	20	13 at 9:15	(AM)(PM)		
					OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n 24 Hours		
Static / Dynamic Property	Static / Orifice Meter Dynamic Size Property (inches)		Differential in	Temperature Temperature		(P_w) or (P_i) or (P_c) (P_w)		Wellhea (P _w) or	ubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		poig (i iii	, menes ri ₂ o			psig 19	93.4	psig	psia				
Flow						0	14.4			24	0		
			<u></u>		FLOW STR	EAM ATTR	IBUTES	1					
Plate Coeffiec (F _b) (F Mcfd	ient ,)	Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Grav Fact	tor	Flowing Femperature Factor F _{f1}	Fa	ation ctor	Metered Flov R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G_m		
									8				
	1		i i	(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS					
(P _c) ² =		: (P _w) ²	= :	$P_d =$, - 14.4) +		: .	(P _a) ² (P _d) ²	= 0.207 =		
$(P_c)^2 - (P_a)^2$ $(P_c)^2 - (P_w)^2$ or $(P_c)^2 - (P_d)^2$		Choose formula 1 or 2 1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formula 1. or 2. and divide P 2 P 2		Backpressure Curve Slope = "n"		n x l OG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)			
		,	divided by: P _c ² - P _w	by:		Stand	ard Slope				(2.2)		
Open Flow Mcfd @ 14.65 p				65 psia	psia Deliverability				Mcfd @ 14.65 psia				
		•	on behalf of the			•			e above repo ovember	rt and that he has	s knowledge of		
		,			RECEIVED RPORATION			7 11 in	111 -	Waitin	AU .		
-		Witness				-		کا کها میمار	For C	Company	0		
		For Com	nmission	D	EC 26	ZUIJ _			Chec	ked by			

CONSERVATION DIVISION WICHITA, KS

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
	nder Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
	egoing pressure information and statements contained on this application form are true and
	st of my knowledge and belief based upon available production summaries and lease records
	tallation and/or upon type of completion or upon use being made of the gas well herein named.
	uest a one-year exemption from open flow testing for the Armstrong 14-31H grounds that said well:
gas well on the (rounds that said well.
(Chec	k 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
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D
	ee to supply to the best of my ability any and all supporting documents deemed by Commissic
staff as necessa	ry to corroborate this claim for exemption from testing.
Date: 11/25/13	·
	s
	and Marting
	Signature: / January -
	Signature: // /CW/VCCC / WCCW Gy/
	Signature:
	Signature: // /CW/VCCC / WCCW Gy/

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 former than Commission signed and dated on the front side as though it was a verified report of annual test results.

W2430 Armstrong 14-31H South Goodland Goodland None May-13

	Casing			HRS	REMARKS
DATE	PSI	STATIC MCF		DOWN	(Maximum length 110 characters)
5/1/2013		0 13	{	3 0	
5/2/2013	(0 - 13	5	3 0	
5/3/2013	(0 13		3 0)
5/4/2013	(0 13		3 0	·
5/5/2013	(0 13		3 0)
5/6/2013		0 13		3 0)
5/7/2013	(0 13	8	3 0)
5/8/2013	() 13	8	3 0)
5/9/2013	(0 13		3 0)
5/10/2013	(0 13		3 0)
5/11/2013		0 13		3 0)
5/12/2013	(13	8	3 0)
5/13/2013	() 13	8	3 0)
5/14/2013	() 13		3 0)
5/15/2013	(0 13		3 0	· ·
5/16/2013	(0 13		3 0)
5/17/2013		0 13		3 0)
5/18/2013	() 13	8	3 0)
5/19/2013	(0 13	8	3 0)
5/20/2013	(0 13	8	3 0)
5/21/2013	(0 13		3 0)
5/22/2013	(0 13		3 0)
5/23/2013	() 13	8	3 0)
5/24/2013	() 13	8	3 0)
5/25/2013	(0 13	8	3 0)
5/26/2013	(0 13	1	3 0)
5/27/2013	(0 13		3 0)
5/28/2013	. (0 13	8	3 0)
5/29/2013		1 14		7 0	shut in
5/30/2013	19	9 32	. (24	opened up
5/31/2013	() 13	8	3 0	1

Total 239

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W2430 Armstrong 14-31H South Goodland Goodland None June-13

	Casing		HR	as	REMARKS
DATE	PSI	STATIC MCI	F DC	WN	(Maximum length 110 characters)
6/1/2013	0	13	9	0	
6/2/2013	. 0	13	9	0	•
6/3/2013	0	13	9	0	
6/4/2013	0	13	9	0	
6/5/2013	0	13	9	0	
6/6/2013	0	13	9	0	
6/7/2013	0	13	9	0	
6/8/2013	0	13.	9	0	
6/9/2013	0	13	9	0	
6/10/2013	0	13	9	0	
6/11/2013	0	13	8	0	
6/12/2013	0	13	8	0	
6/13/2013	0	13	8	0	
6/14/2013	0	13	8 .	0	
6/15/2013	0	13	8	0	
6/16/2013	0	13	8	0	
6/17/2013	0	13	8	0	
6/18/2013	0	13	8	0	
6/19/2013	0	13	8	0	
6/20/2013	0	13	8	0	
6/21/2013	0	13	8	0	
6/22/2013	0	13	8	0	
6/23/2013	0	13	8	0	
6/24/2013	0	13	8	0	
6/25/2013	0	13	8	0	
6/26/2013	0	13	8	0	
6/27/2013	0	13	8	0	
6/28/2013	0	13	8	0	
6/29/2013	0	13	8	3	
6/30/2013	0	13	8	0	
7/1/2013				0	

Total 250

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W/2430 Armstrong 14-31H South Goodland Goodland None July-13

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

Total 272

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