KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		RSI		(See Instruct	ions on Hev	retse Side	"				
_ `	en Flow liverabilty	B J		Test Date 6/2/2019					No. 15 -20451-01 0	Q		
Company		urces, Inc.				Lease Bowman	n			21-08	Well Nu H	mber
County Location Sherman NENW			Section TWP 8 7S			RNG (E/	W)		Acres Attributed 80			
Field Goodlan	d			Reservoir Niobrara					hering Conn Systems In			
Completion 10/23/20				Plug Bac 3122'	k Total Dept	h 		Packer S	Set at			
Casing Si 4 1/2"	ize	Weigl 10.5#		Internal Diameter Set at 4.000 3122'			Perfo	rations 2'	то 3067'	то 3067'		
Tubing Si NONE	ze	Weigi	ht	Internal [Internal Diameter Set at			Perfo	rations	То	То	
Type Con Single (Type Flui Dry Ga	d Production	1		Pump Ur Flowin	nit or Traveling g	Plunger? Yes	(No)	
Producing Annulus		nnulus / Tubin		% C	arbon Dioxid	de		% Nitrog	en	Gas G .6	ravity - (·
Vertical D 3152'	epth(H)				Press Flan	sure Taps ge				(Meter 2"	Run) (P	rover) Size
Pressure	Buildup:	Shut in 6-1			:25					15 at 4:40	(AM)(PM)
Well on L	ine:	Started 6-2	2 2	0 <u>15</u> at 4	:40	(AM)(PM)	Taken 6-	3	20	15 at 5:25	(AM)(PM)
					OBSERVE	D SURFACE	E DATA			Duration of Shut	-in 24	Hour
Static / Dynamic Property	Static / Orifice Meter Differ Dynamic Size Prover Pressure (inches)			Flowing Temperature t	Well Head Temperature t	Wellhead	(P ₁) or (P ₂)		Tubing ad Pressure (P _t) or (P _c)	Duration (Hours)		d Produced Barrels)
Shut-In					_	17	31.4	psig				
Flow			<u> </u>			8	22.4			24	0	
 _				7	FLOW STR	EAM ATTR	IBUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or rover Pressure psia	Press Extension P _m xh	Gravity Factor F _g		Flowing emperature Factor F _{re}	erature Factor		Metered Flor R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
									34			
/= 10		/ - \-		•	OW) (DELIV	•				_	$)^2 = 0.2$	07
$(P_c)^2 = $: P_) ²	(P _w) ² =	Choose formula 1 or 2	LOG of	<u>`</u>	Backpres	o - 14.4) + Ssure Curve Se ≈ "n"		:	(P _d		en Flow
(P _c) ² - (I	P _d) ²		2. P _c ² -P _d ²	formula 1. or 2. and divide by:	P _c ² - P _w ²	Ası	orsigned ard Slope	- n x	LOG	Antilog	Equals	lverability R x Antilog (Mcfd)
Open Flo	w		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	sia	
The	undersign	ed authority, o	on behalf of the	Company,	states that h	e is duly au	ıthorized t	o make th	ie above repo	ort and that he h	as know	ledge of
the facts s	tated ther	ein, and that s	aid report is true	and correc	t. Executed	this the $\frac{22}{1}$	TIA	day of D	ecember Cull For	MICOST		20 <u>15</u> >
		Witness	(if any)		API	R 07 21	316	Y CLIV	For	Company	ny	
		For Com	mission			RECEIV	ED		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 Bowman 21-08H gas well on the grounds that said well:	- d s
(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 abīlity any and all supporting documents deemed by Commiss staff as necessary to corroborate this claim for exemption from testing.	ion
Date: _12/22/15	
APR 07 2016 RECEIVED 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.

W2283 Bowman 21-08H North Goodland Goodland None June-15

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/2015	1	7 30	0	24	
6/2/2015	1	7 30	0	24	
6/3/2015	1	5 28	36	0	
6/4/2015	1.	3 26	36	0	·
6/5/2015	1:	2 25	38	0	
6/6/2015	1:	2 25	40	0	
6/7/2015	1	1 24	40	0	
6/8/2015	1	1 24	42	0	
6/9/2015	1	0 23	42	0	
6/10/2015	1	0 23	42	0	
6/11/2015	1	0 23	43	0	
6/12/2015	1	0 23	42	0	
6/13/2015	1	0 23	36	4	
6/14/2015		9 22	2 41	0	
6/15/2015		9 22	. 42	0	
6/16/2015		9 22	. 41	0	
6/17/2015		9 22	2 40	0	
6/18/2015	!	9 22	2 41	0	
6/19/2015		8 21	39	0	
6/20/2015		8 22	2 36	1	
6/21/2015		8 21	40	0	
6/22/2015		8 21	. 39	0	
6/23/2015		8 21	39	0	bp
6/24/2015		8 21	37	0	
6/25/2015		8 21	. 33	2	
6/26/2015		8 21	. 39	0	
6/27/2015		8 21	. 39	0	
6/28/2015		8 21	39	0	
6/29/2015		8 21	38	0	
6/30/2015		8 21	38	0	
7/1/2015		() 0	0	

Total 1098

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W2283 Bowman 21-08H

North Goodland

Goodland

None

July-14

	Casing			HRS	ļ	REMARKS
DATE	PSI	STATIC	MCF	DOWN	_	(Maximum length 110 characters
7/1/2014		8 2	21	35	0	
7/2/2014		8	21	34	0	
7/3/2014		8	21	35	0	
7/4/2014		8	21	34	0	
7/5/2014		8	21	33	0	
7/6/2014		8	21	33	0	
7/7/2014		8	21	35	0	
7/8/2014		7	20	35	0	
7/9/2014		7	20	35	0	
7/10/2014		7	20	34	0	
7/11/2014		7	20	33	0	
7/12/2014		7	20	33	0	
7/13/2014		7	20	32	0	
7/14/2014		8	21	32	0	
7/15/2014		9	22	23	6	
7/16/2014		8	21	30	0	
7/17/2014		8	21	29	0	
7/18/2014		9	22	29	0	
7/19/2014		9	22	29	0	
7/20/2014		9	22	29	0	
7/21/2014		9	22	27	1	
7/22/2014		9	22	30	0	
7/23/2014		9	22	24	3	
7/24/2014		9	22	30	0	
7/25/2014		9	22	30	0	
7/26/2014		9	22	31	0	
7/27/2014		9	22	31	0	
7/28/2014		9	22	20	9	
7/29/2014		9	22	32	0	
7/30/2014		9	22	33	0	
7/31/2014		9	22	33	1	

963 Total

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W2283 Bowman 21-08H

North Goodland

Goodland

None

August-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
8/1/2014	:	8 21	Į.	34	2	
8/2/2014	;	8 21		34	0	
8/3/2014	;	8 21	l	34	0	
8/4/2014	;	8 21	I	34	0	
8/5/2014	;	8 21	l	34	0	
8/6/2014	:	8 21	l	34	0	
8/7/2014		8 21	[34	0	
8/8/2014		8 21	l	34	0	
8/9/2014	:	8 21	l	34	0	
8/10/2014	;	8 21	Į.	34	0	
8/11/2014	•	7 20)	34	0	
8/12/2014		7 20)	34	0	
8/13/2014		7 20)	34	0	
8/14/2014		7 20)	34	0	
8/15/2014		7 20)	34	0	
8/16/2014		7 20)	34	0	
8/17/2014		7 20)	34	0	
8/18/2014	,	7 20)	34	0	
8/19/2014		7 20)	34	0	
8/20/2014		7 20)	34	0	
8/21/2014		7 20)	34	0	
8/22/2014		7 20)	34	0	
8/23/2014		7 20)	34	0	
8/24/2014		7 20)	34	0	
8/25/2014		7 20	C	34	0	
8/26/2014		7 20	O	34	0	
8/27/2014		7 20	O	34	0	
8/28/2014		7 20	0	34	0	
8/29/2014		7 20	0	34	0	
8/30/2014		7 20	0	34	0	
8/31/2014		7 20	0	34	0	

Total

1054

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