KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	ctions on Rev	erse Side)					
Op	en Flow	MSI			Test Date				A [2]	No. 15				
De	liverabili	ty			7/31/14	,				1-20347-00 0	0			
Company		ources		-			Lease Harden				_	1-4	Well Nu	mber
County Sherman	——— n	Loc SWN	ation E		Section 4		TWP 7S		RNG (E 39W	/W)	<u>.</u>		Acres A	attributed
Field Goodlan	nd				Reservoir Niobrara					thering Conn Systems In				
Completion 7/24/200					Plug Bac 1198'	k Total Dep	oth		Packer \$	Set at				
Casing Size Weight 4 1/2" 10.5#			Internal D 4.052	Diameter		Set at 1211'		Perforations 1024'		т₀ 1054'				
Tubing Si	ize	Wei	ght		Internal D	Diameter	Set a	t	Perfo	rations		То		
		(Describe) entional)			Type Flui Dry Ga	d Productio	n		Pump U	nit or Traveling	Plung	er? Yes	/(vo)	
Producing	•	Annulus / Tub	ing)		% C	arbon Diox	ride		% Nitrog	jen		Gas G	ravity - (à,
Vertical E	Depth(H)			-		Pres Flan	ssure Taps					(Meter 2"	Run) (P	rover) Size
Pressure	Buildup	Shut in 7	-30		14 at 4	:30	(AM) (PM)					4:40	(AM(PM)
Well on L	ine:	Started 7	-31	2	0 14 at 4	:40	(AM)(PM)	Taken 8-	1	20	<u>14</u> a	5:30	(AM)(PM)
			,			OBSERVE	D SURFACE	DATA			Duration	on of Shut	_{-in_} 24	Hours
Static / Orifice Meter Dif Dynamic Size Prover Pressure Property (inches)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In				<u>-</u> _			8	22.4	poig	pora				
Flow						<u> </u>	6	20.4			24		0_	
						FLOW ST	REAM ATTR	BUTES		_	- 1			
Plate Coeffiec (F _b) (F Mcfd	eient (p)	Circle one: Meter or Prover Pressure psia	,	Press Extension ✓ P _m ×h	Grav Fact	tor	Flowing Temperature Factor F _{ft}	Fa	iation ctor	Metered Flow R (Mcfd)	w	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
										8				
					•	, ,	/ERABILITY)) ² = 0.2	07
(P _c) ² =		; (P _w)	_	se formula 1 or 2	$P_d =$			<u>ु - 14.4) +</u>		 :		(P _d)	<u> =</u>	
(P _c) ² - (I or (P _c) ² - (I		(P _c) ² - (P _w) ²	2	1. P _c ² -P _a ² 2. P _c ² -P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop Ass	ssure Curve e = "n" or signed ard Slope	n x	rog	A	ntilog	Deli Equals	en Flow verability R x Antilog (Mcfd)
			divid	ad by: $P_c^2 - P_w$	2 by:	<u> </u>	Jianus	ara Giope						· ·
Open Flor	w			Mcfd @ 14.	.65 psia		Deliverab	lity			Mcfd €	14.65 ps	ia	
	_	ned authority, erein, and that					•			ne above repo December	rt and	that he ha		ledge of 20 14
ano racio S	iaiou lilt	arou, and ma	Saiu	oportio qui		Rece		_	IMM.	WI 1	1/1/	etu	ردو	
			is (if any	<u> </u>		FEB 2					Company		8	
		For Co	mmissio	on		NSFRVATIC				Che	cked by			

CONSERVATION DIVISION WICHITA, KS

exempt status under F and that the foregoing correct to the best of n of equipment installati	renalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. g pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ion and/or upon type of completion or upon use being made of the gas well herein named. It is one-year exemption from open flow testing for the Harden 1-4 ds that said well:
is a list of the l	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No not capable of producing at a daily rate in excess of 250 mcf/D
_	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
Date: _12/22/14	
KANSAS CORPC	eceived ORATION COMMISSION Signature: Multiple Martine Matter Martine Matter Martine Matter Martine Matter

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.

W403 Harden 1-4 North Goodland Goodland None July-14

	Casing			HRS	REMARKS
DATE	PSI_	ST <u>A</u> TIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014		5 18	9	0	
7/2/2014	;	5 18	9	0	
7/3/2014	;	5 18	9	0	
7/4/2014	,	5 18	9	3	
7/5/2014	:	5 18	9	0	
7/6/2014	;	5 18	9	0	
7/7/2014	;	5 18	9	0	
7/8/2014	:	5 18	9	0	
7/9/2014	;	5 18	9	0	
7/10/2014	;	5 18	9	0	
7/11/2014		5 18	9	0	
7/12/2014	;	5 18	9	0	
7/13/2014	;	5 18	. 9	0	
7/14/2014	;	5 18	9	0	
7/15/2014	;	5 18	9	3	
7/16/2014	;	5 18	. 9	0	
7/17/2014		4 17	12	. 0	
7/18/2014		5 18	9	0	
7/19/2014	;	5 18	9	0	
7/20/2014	:	5 18	. 9	0	
7/21/2014	,	5 18	9	0	
7/22/2014	(5 19	8	0	
7/23/2014	(5 19	8	0	
7/24/2014	(5 19	8	0	
7/25/2014	1	6 19	8	0	
7/26/2014	(5 19	8	0	
7/27/2014		5 19	8	0	
7/28/2014		5 19	8	0	
7/29/2014		6 19	8	0	
7/30/2014	;	5 18	10	0	shut in for state
7/31/2014	;	8 21	0	24	opened up

Total

266

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FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS

W403 Harden 1-4 North Goodland Goodland None August-14

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

Total 275

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

W403 Harden 1-4 North Goodland Goodland None September-14

	Casing			HR	LS.	REMARKS
DATE	PSI	STATIC	MCF	DC)WN	(Maximum length 110 characters)
9/1/2014	_	5 1	8	9	0	
9/2/2014		5 1	8	9	0	
9/3/2014		5 1	8	10	0	
9/4/2014		5 1	8	9	0	
9/5/2014		5 1	8	9	0	
9/6/2014		5 1	8	9	0	
9/7/2014		5 1	8	9	0	
9/8/2014		5 1	8	9	0	
9/9/2014		5 1	8	9	0	
9/10/2014		5 1	8	9	0	
9/11/2014		5 1	8	9	0	
9/12/2014		5 1	8	9	0	
9/13/2014		5 1	8	9	0	
9/14/2014		5 1	8	9	0	
9/15/2014		5 1	8	9	0.5	
9/16/2014		5 1	8	9	0	
9/17/2014		5 1	8	9	0	
9/18/2014		5 1	8	9	0.5	
9/19/2014		5 1	8	9	0	
9/20/2014		5 1	8	9	0	
9/21/2014		5 1	8	9	0	
9/22/2014		5 1	8	9	0	
9/23/2014		5 1	8	9	0	
9/24/2014		5 1	8	9	0	
9/25/2014		5 1	8	9	0	
9/26/2014		5 1	8	9	0	
9/27/2014		5 1	8	9	0	
9/28/2014		5 1	8	9	0	
9/29/2014		5 1	8	9	0	
9/30/2014		5 1	8	9	0	
10/1/2014					0	

Total 271

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FEB 2 5 2015