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

Type Test	t: <b></b>	RIST		(	See Instruc	tions on Re	overse Side	?)				
	Open Flow DSD  Test Date: API No. 15 6/22/14 15-023-20567							0000				
Company		ources				Lease Miller	<u>.</u>		<u>.</u>	1-13	Well Nu	ımber
County Location Cheyenne NESW				Section 13				RNG (E 41W	W)	Acres Attributed 80		
Field St. Francis					Reservoir Gas Gath Niobrara Branch S							
Completion 9-10-200				Plug Bac 1457'	Plug Back Total Depth Packer S 1457'							
Casing S 4 1/2"	ize	Weigh 10.5#		Internal I 4.052	Internal Diameter Set at 4.052 1500'				orations 2'	To 1330'		
Tubing Si	ize	Weigh	ıt	Internal L	Internal Diameter Set at			Perfo	prations	То		
		(Describe) ntional)		Type Flui Dry Ga	d Production	n			nit or Traveling	Plunger? (Yes	)/ No	
	Thru (A	Annulus / Tubing	g)	% C	% Carbon Dioxide				jen	Gas Gravity - G <sub>g</sub>		
Vertical D					Pres Flan	sure Taps ge					Run) (P	rover) Size
Pressure	Buildup:	Shut in 6-7	2	0 14 at 8			Taken 6-	21	20	14 <sub>at</sub> 9:10	(	AM)(PM)
Well on Line: Started 6-22		22	14 at 9	:10					14 at 9:55	(	AM)(PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shut-	<sub>in</sub> _36	)Hou
Static / Dynamic Property	Orifice Size (inches	Meter Prover Pressi	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Hea Temperature t t		re Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)		d Produced Barrels)
Shut-In						158	psia 172.4	psig	psia			
Flow	ow			53	67.4			360	0			
	<del>_</del>				FLOW STR	REAM ATTE	BUTES	_		<del>- , -</del>		
Plate Coeffiecient $(F_b)(F_p)$ $F$		Meter or  Prover Pressure psia  Press Extension  Prover Pressure		Gravity Factor F <sub>g</sub>		Flowing Femperature Factor	Fa	Deviation Factor F <sub>pv</sub>		y GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
									40			
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> )² =	:	(OPEN FL	OW) (DELIV		/) CALCUL P <sub>e</sub> - 14.4) +		:	(P <sub>a</sub> )	² = 0.2	07
$(P_g)^2 - (P_g)^2$ or $(P_e)^2 - (P_g)^2$		(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	P <sup>2</sup> -P <sup>2</sup> LOG of formula 1 or 2: LOG of formula 1. or 2. and divide P <sup>2</sup> -P <sup>2</sup>		Backpressure Curve Slope = "n" or Assigned Standard Stope		n x LOG		Antilog	Op Del Equals	en Flow Iverability R x Antilog (Mcfd)
				-				-				
Open Flor	—_ <u>↓</u> w		Mcfd @ 14.6	_  65 psia		Deliverat	oility			Mcfd @ 14.65 ps	 ia	
The u	undersign	ned authority, o	n behalf of the	Company, s	states that h	e is duly a	uthorized to	o make ti	ne above repo	ort and that he ha	as know	ledge of
the facts s	tated the	rein, and that sa	aid report is true		t. Executed Receiv	rea -				-11/1	10	20 14 Def
		Witness (	f any)	<del></del>	FEB 2 5			J.M.	nall for	PV (U) Company	W	es-
		For Comm	nission		NSERVATION WICHITA,	DIVISION			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 Miller 1-13 gas well on the grounds that said well:
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 ability any and all supporting documents deemed by Commissions staff as necessary to corroborate this claim for exemption from testing.
Date: _12/12/14
Received KANSAS CORPORATION COMMISSION Signature:  FEB 2 5 2015  Title: Production Assistant  CONSERVATION DIVISION WICHITA, KS

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.

W357

Miller 01-13

St. Francis

St. Francis

St. Francis

June-184

FloBoss

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN	(Maximum length 110 characters)
6/1/201 <b>34</b>	51	64		36	0	
6/2/2013	56			34	0	
6/3/2013	50			34		turn on pumping unit
6/4/2013	66			36	0	
6/5/2013	47			39	0	
6/6/2013	48			39		turn off pumping unit
6/7/2013	136			23	9	
6/8/201	140			0	24	
6/9/2013	143			0	24	
6/10/201	145			0	24	
6/11/2013	146			0	24	
6/12/2013	148			0	24	
6/13/2013	149			0	24	
6/14/2013	150	163		0	24	
6/15/2013	151	164		0	24	
6/16/2013	152			0	24	
6/17/201	153	166		0	24	
6/18/2013	154			0	24	
6/19/2013	154			0	24	
6/20/2013	155	168		0	24	
6/21/2013	158	171		0	24	
6/22/201\$	101	114		50	24	
6/23/2013	118	131		54	5	
6/24/2013	107	120		60	0	
6/25/2013	101	114		50	0	
6/26/2013	90	103		43	0	
6/27/2013	81	94		40	0	
6/28/2013	51	64		38	0	
6/29/2013	50	63		36	0	started pumping unit
6/30/2013	52	65		39	0	
7/1/2013					0	

Total 651

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FEB 2 5 2015

W357

Miller 01-13

St. Francis

St. Francis

St. Francis

July-14

FloBoss

1100033	Casing			HRS	Water		REMARKS
DATE	PSI	STATIC	MCF	DOWN	BBLS		(Maximum length 110 characters)
7/1/2014	52	65	40		0	21	
7/2/2014	52	65	40		0	22	
7/3/2014	52	65	41		0	23	
7/4/2014	52	65	41		0	22	
7/5/2014	53	66	41		0	23	
7/6/2014	53	66	41		0	22	4.5 min bt
7/7/2014	54	67	41		0	21	
7/8/2014	54	67	41		0	22	
7/9/2014	56	69	44		0	23	
7/10/2014	56		41		0	21	
7/11/2014	59	72	41		0	22	
7/12/2014	57		41		0	23	
7/13/2014	60		39		0	22	
7/14/2014	61	74	39		0	21	
7/15/2014	49	62	41		0	22	
7/16/2014	51	64	41		0	23	
7/17/2014	51	64	44		0	21	
7/18/2014	52	65	41		0	23	
7/19/2014	48	61	41		0	22	
7/20/2014	50	63	41		0	21	
7/21/2014	129		41		0	22	
7/22/2014	136		13		22	23	
7/23/2014	75	88	39		7	22	
7/24/2014	57	70	39		3	18	
7/25/2014	49	62	34		4	0	started pumping unit
7/26/2014	48		38		0	14	
7/27/2014	49		39		0	21	
7/28/2014	50		39		0	22	
7/29/2014	49	62	39		0	23	
7/30/2014	- 51	64	40		0	22	
7/31/2014	51	64	40	<u> </u>	0	21	

Total 1221 648

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CONSERVATION DIVISION WICHITA, KS

W357

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Miller 01-13

St. Francis

St. Francis

St. Francis

August-14

FloBoss

FloBoss								
	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2014		51 64	40	6.5	16	0	23	
8/2/2014	5	63 63	40	6.5	16	0	23	
8/3/2014		51 64	40	6.5	16	0	23	
8/4/2014	5	50 63	40	6.5	16	0	23	
8/5/2014	5	52 65	40	6.5	16	0	21	
8/6/2014	5	53 66	5 40	6.5	16	0	23	
8/7/2014	4	53 66	5 40	6.5	16	0	23	
8/8/2014	5	53 66	40	6.5	16	0	23	
8/9/2014	5	55 68	40	6.5	16	0	21	4.5 min BT
8/10/2014	5	55 68	40	6.5	16	0	20	
8/11/2014	5	56 69	40	6.5	16	0	23	
8/12/2014	5	50 63	40	6.5	16	0	23	
8/13/2014	5	52 65	40	6.5	16	0	23	
8/14/2014	5	50 63	40	6.5	16	0	21	
8/15/2014	5	57 <b>7</b> 0	39	6.5	16	3	23	
8/16/2014	4	56 69	41	6.5		0	23	
8/17/2014	5	56 69	41	6.5	16	0	23	
8/18/2014	5	66 69	41	6.5	16	0	23	
8/19/2014	ť	54 77	41	6.5	16	2	21	
8/20/2014	5	54 67	41	6.5	16	0	23	
8/21/2014	5	53 66	41	6.5	16	0	21	
8/22/2014	6	54 77	41	6.5	16	0	21	
8/23/2014	5	63 63	41	6.5	16	0	23	
8/24/2014	5	51 64	41	6.5	16	0	20	l
8/25/2014	7	77 90	41	6.5	16	0	21	
8/26/2014	5	53 66	41	6.5	16	0	23	
8/27/2014	5	55 68	35	6.5	16	0	20	ı
8/28/2014	11	15 128	41	6.5	16	0	11.5	
8/29/2014	4	19 62	34	6.5	16	5	11.5	
8/30/2014	4	19 62	40	6.5	16	0	23	
8/31/2014	6	53 75	40			0	23	

Total 1240 667

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