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

Type Test	t:	Tech		(	See Instruc	tions on Re	verse Side	9)						
∐ op	en Flow	ICA		Test Date	n:			API	No. 15					
De	eliverabilty	<u> </u>		6/22/14	·•				-20635-00	0 _	_			
Company Rosewo		urces, Inc.				Lease Ella Ma	e				14-3	Well Nu	mber	
County Location Street SWSW			Section TWP 3 3S				RNG (E/W) 42W				Acres A 80	ttributed		
Field Cherry (	Creek				Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.			<del>-</del>			
Completi 10-21-2				Plug Bac 1715'	k Total Depi	th		Packer S	et at					
Casing S	Size	Weigi 6.5#	ht	Internal E 2.441	Internal Diameter		Set at 1715'		Perforations 1575'			то 1607'		
Tubing S	ize	Weig	ht	Internal [	Internal Diameter Set at			Perforations			То			
		Describe)		Type Flui Dry Ga	Type Fluid Production			Pump Unit or Traveling Plunger			r? Yes	No		
Producing	g Thru (A	nnulus / Tubin	ig)		arbon Dioxi	de		% Nitroge				avity - G	 ì <sub>g</sub>	
Annulus Vertical E	_				Bree	sure Taps					.6 (Meter	Run\ /Pr	over) Size	
1573'	2 <del>0</del> pul(n)				Flan						2"	————		
Pressure	Buildup:											(	AM)(PM)	
Well on L	line:	Started 6-2	22 20	14 at 1	:30	(AM)(PM)	Taken 6-	23	20	<u>14</u> at	3:00	(	AM)(PM)	
					OBSERVE	D SURFACI	E DATA			Duration	of Shut	<sub>in</sub> _360	Hours	
Static / Oritice Meter Differ  Dynamic Size Prover Pressure in		Differential in	Flowing Well Head Temperature t		Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		1		1	ration Liquid Produced ours) (Barrels)				
Shut-in	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	psig (Pm)	Inches H <sub>2</sub> 0		<u> </u>	psig 190	psla 204.4	psig	psia					
Flow			_			44	58.4			360		0		
	·				FLOW STR	EAM ATTR	IBUTES			· <u> </u>				
Coefficient Me		Circle one: Meter or Prover Pressure psia	Press Extension	Grav Faci F <sub>s</sub>	tor	Flowing Flowing Factor F <sub>f1</sub>	Fa	iation ctor pv	Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
									2					
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =	= :	(OPEN FLO		'ERABILITY % (F	) CALCUL <sup>2</sup> c - 14.4) +		:		(P <sub>a</sub> ) (P <sub>d</sub> )	) <sup>2</sup> == 0.2	07	
(P <sub>o</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2.  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	LOG of formula 1, or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpre Slop As:	ssure Curve De = "n" Of signed ard Slope	n x L	06	An	tilog	Op Deli Equals	en Flow verability R x Antilog Mcfd)	
Open Flo	ow		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @	14.65 ps	ia		
	-	•	on behalf of the	• •		•	'		-	ort and th	hat he ha	as know	ledge of	
the facts s	stated the	rein, and that s	said report is true	and correc	t. Executed	this the 10		day of De	ecember	4.1		; vel	20 _14	
		Witness	(if any)	KANSAS C	Receive ORPORATION	d Commission		ant	<u>UUU</u>	M//C Company	Ulle	uel	<u>/</u>	
											<u>_</u>			
		For Com	mission	r:	EB 25	ZUID	-		Che	cked by				

CONSERVATION DIVISION WICHITA, KS

exempt status under and that the forego correct to the best o of equipment installa	penalty 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.  In pressure information and statements contained on this application form are true and f my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named.
gas well on the grou	t a one-year exemption from open flow testing for the Ella Mae 14-03
i   i   ;   v	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D s supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary t	o corroborate this claim for exemption from testing.
Date: 12/10/14	
KANSAS CO FE CONSI	Received RPORATION COMMISSION 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.

W435 Ella Mae 14-03 West St. Francis St. Francis None June-14

	Casing	Casing		RS	REMARKS		
DATE	PSI	STATIC MCF	DOWN		(Maximum length 110 characters)		
6/1/2014	47	61	2	0			
6/2/2014	66	79	2	0			
6/3/2014	60	74	3	0			
6/4/2014	40	54	3	0			
6/5/2014	29	53	3	0			
6/6/2014	43	56	2	0			
6/7/2014	162	175	1	9			
6/8/2014	164	177	0	24			
6/9/2014	167	180	0	24			
6/10/2014	170	183	0	24			
6/11/2014	175	188	0	24			
6/12/2014	182	195	0	24			
6/13/2014	186	199	0	24			
6/14/2014	187	200	0	24			
6/15/2014	187	200	0	24			
6/16/2014	189	202	0	24			
6/17/2014	190	203	0	24			
6/18/2014	190	203	0	24			
6/19/2014	190	203	0	24			
6/20/2014	190	203	0	24			
6/21/2014	190	203	0	24			
6/22/2014	190	203	0	24			
6/23/2014	113	126	7	5			
6/24/2014	107	· 120	8	0			
6/25/2014	93	107	3	0			
6/26/2014	85	99	3	0			
6/27/2014	76	90	3	0			
6/28/2014	46	60	3	0			
6/29/2014	45	59	3	0			
6/30/2014	44	58	3	0			
7/1/2014				0			

Total 49

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W435 Ella Mae 14-03 West St. Francis St. Francis None July-14

	Casing		H	RS	REMARKS
DATE	PSI	STATIC MCF	D	OWN	(Maximum length 110 characters)
7/1/2014	43	57	2	0	
7/2/2014	44	58	2	0	
7/3/2014	44	58	2	0	
7/4/2014	44	58	2	0	
7/5/2014	48	61	1	0	
7/6/2014	48	61	1	0	
7/7/2014	62	75	1	0	
7/8/2014	50	63	1	0	
7/9/2014	50	63	1	0	
7/10/2014	51	64	0	0	
7/11/2014	52	65	1	0	
7/12/2014	53	66	0	0	
7/13/2014	54	67	0	0	
7/14/2014	83	96	0	0	
7/15/2014	43	56	1	0	
7/16/2014	43	56	0	0	
7/17/2014	44	57	0	0	
7/18/2014	44	57	0	0	
7/19/2014	44	57	0	0	
7/20/2014	42	55	0	0	
7/21/2014	116	129	1	0	
7/22/2014	74	87	0	22	
7/23/2014	62	75	2	7	
7/24/2014	55	69	2	3	
7/25/2014	49	62	2	4	
7/26/2014	41	54	1	0	
7/27/2014	42	55	0	0	
7/28/2014	37	50	0	0	
7/29/2014	34	47	1	0	
7/30/2014	28	42	1	0	
7/31/2014	28	42	_1_	0	

Total 26

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W435 Ella Mae 14-03 West St. Francis St. Francis None August-14

	Casing		Н	RS	REMARKS
DATE	PSI	STATIC MCF	D	OWN	(Maximum length 110 characters)
8/1/2014	28	41	2	0	
8/2/2014	28	41	2	0	
8/3/2014	27	40	2	0	
8/4/2014	45	58	2	0	
8/5/2014	45	58	2	0	
8/6/2014	46	59	2	0	
8/7/2014	47	60	2	0	
8/8/2014	48	61	2	0	
8/9/2014	48	61	2	0	
8/10/2014	50	63	2	0	
8/11/2014	53	66	2	0	
8/12/2014	44	57	2	0	
8/13/2014	26	40	2	0	
8/14/2014	26	40	2	0	
8/15/2014	51	64	2	3	
8/16/2014	26	39	2	0	
8/17/2014	26	39	2	0	
8/18/2014	26	39	2	0	
8/19/2014	57	70	2	2	
8/20/2014	52	66	2	0	
8/21/2014	29	43	2	0	
8/22/2014	58	72	2	0	
8/23/2014	41	55	2	0	
8/24/2014	43	57	2	0	
8/25/2014	64	77	1	0	
8/26/2014	49	63	1	0	
8/27/2014	49	63	2	0	
8/28/2014	50	64	2	0	
8/29/2014	42	55	2	5	
8/30/2014	42	55	2	0	
8/31/2014	54	68	2	0	

Total 60

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