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

Type Test	t:	TOR		(	See Instruc	tions on Re	everse Side	<del>)</del> )				
Open Flow			Test Date	Test Date: API No. 15								
De	liverabilty			6/21/20	6/21/2013 023-21263-00 <b>00</b>							
Company Rosewoo		urces, Inc.			Lease Zimbel	man			Well Number 21-24			
County Location Cheyenne NENW			Section 24				RNG (E/\ 41W	W)		Acres Attributed 80		
Field Cherry Creek				Reservoir Niobrara				ering Conne Systems In				
Completion Date 10/13/2010				Plug Bac 1391'	Plug Back Total Depth 1391'			Packer S	et at			
Casing Size Weight 4 1/2" 10.5#			Internal ( 6.366	Diameter		Set at Perfo 1431' 119		ations I'	то 1224'			
Tubing Si	Tubing Size Weight NONE			Internal [	Internal Diameter Set at			Perfor	ations	То		
Type Completion (Describe) Single (Conventional)				Type Fluid Production Dry Gas			Pump Un flowing	it or Traveling	Plunger? Yes	(No)		
Annulus	Producing Thru (Annulus / Tubing) Annulus			% C	% Carbon Dioxide			% Nitroge	en	Gas Gr .6	avity - G <sub>g</sub>	
Vertical D	Vertical Depth(H) 1450'			Pressure Taps <b>Flange</b>						(Meter I 2"	Run) (Prover) Size	
Pressure	Buildup:	Shut in 6-20	)2	0_13_at_6	:05	(AM)(PM)	Taken 6-	21	20	13 <sub>at</sub> 6:15	(AM((PM))	
Well on L	ine:	Started 6-21	20	13 at 6	:15	(AM) (PM)	Taken 6-	22	20	13 at 6:40	(AM)(PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hours	
Static / Dynamic Property	ynamic Size Meter Differential		Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$ psig psia		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			2			205	219.4	porg	paia			
Flow					51.001.000	53	67.4			24		
Black		Circle one:			FLOW STR	Flowing	RIBUTES				Flowing	
Coefficcient Meter (F <sub>b</sub> ) (F <sub>c</sub> ) Prover Pro		Meter or rover Pressure psia	Press Extension P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		Flowing Femperature Factor F <sub>ft</sub>	Deviation Factor F <sub>pv</sub>		Metered Flov R (Mcfd)	GOR (Cubic Fe Barrel)	et/ Fluid Gravity	
		1				10						
	<b>!</b>			(OPEN FL	OW) (DELIV	ERABILITY	/) CALCUL	ATIONS		(P.)	² = 0.207	
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =_	:	$P_d =$		% (	P <sub>c</sub> - 14.4) +	14.4 =	:		<sup>2</sup> =	
	$ \begin{array}{c cccc} (P_c)^2 \cdot (P_a)^2 & Choose formula 1 or 2 \\ (P_c)^2 \cdot (P_a)^2 & (P_c)^2 \cdot (P_w)^2 & 1. \ P_c^2 \cdot P_a^2 \\ or & 2. \ P_c^2 \cdot P_d^2 \\ \end{array} $		LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n" or Assigned		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
		d	livided by: $P_c^2 - P_w^2$	by:		Stand	dard Slope				(mora)	
Open Flow Mcfd @ 14.65					psia Deliverability Mcf					Mcfd @ 14.65 ps	ofd @ 14.65 psia	
	-	ed authority, on ein, and that sai	id report is true	and correc		PRATION CO	MMISSION	o make the	-	rt and that he ha	, 20 13	
		For Commis	ssion			VATION DIV	ISiON		Chec	ked by		

WICHITA, KS

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 Zimbelman 21-24 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 Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 11/21/13
RECEIVED KANSAS CORPORATION COMMISSION Title:  DEC 2 6 2013  CONSERVATION DIVISION WICHITA, KS  Production Assistant

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.

W2736

Zimbelman 21-24

St. Francis

St. Francis

Flow

June-13

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/2013	44	57			
6/2/2013	48	61	9	)	
6/3/2013	47	60	10	•	
6/4/2013	45	58	10	)	
6/5/2013	50		10	)	
6/6/2013	57	70	10	1	
6/7/2013	54	67	10	1	
6/8/2013	50	63	10		
6/9/2013	53		10		
6/10/2013	85				•
6/11/2013	74			1	
6/12/2013	72				
6/13/2013	54				
6/14/2013	54	67	10	•	
6/15/2013	59	72	10	l	
6/16/2013	59	72	10	)	
6/17/2013	55	68	10	1	
6/18/2013	49	62	9	ı	
6/19/2013	46	59	9	İ	
6/20/2013	52	65	9	ı	si for state test - cp 50
6/21/2013	138	151	0	24	reopened - cp 205
6/22/2013	78		16		
6/23/2013	79	92	10	l	
6/24/2013	76				
6/25/2013	79	92	10	1	·
6/26/2013	77				
6/27/2013	67	80	10	i	
6/28/2013	50			1	
6/29/2013	50	63	10	i	
6/30/2013	49	62	10		
7/1/2013					

Total 292

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CONSERVATION DIVISION WICHITA KS

W2736

Zimbelman 21-24

St. Francis

St. Francis

Flow

July-13

**FloBoss** 

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2013	52	65		0	
7/2/2013	53	66	•	0	
7/3/2013	53			0	
7/4/2013	55			0	
7/5/2013	55			0	
7/6/2013	54			0	
7/7/2013	66			0	
7/8/2013	65			9	
7/9/2013	62			9	
7/10/2013	59			9	
7/11/2013	63			9	
7/12/2013	69			9	
7/13/2013	72			9 2.	5
7/14/2013	75	88		9	
7/15/2013	55	68		9	
7/16/2013	52	65		9	
7/17/2013	48			9	
7/18/2013	79	92		9	
7/19/2013	70	83		9	
7/20/2013	71	84		9	
7/21/2013	73			9	
7/22/2013	69			9	
7/23/2013	66			9	
7/24/2013	73	86		9	
7/25/2013	76			9	
7/26/2013	64			9	
7/27/2013	52			9	
7/28/2013	54			9	
7/29/2013	52	65		9	
7/30/2013	93	106		9 3.	5
7/31/2013	117	130		0 5.	5

Total 277

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CONSERVATION DIVISION WICHITA, KS

W2736

Zimbelman 21-24

St. Francis

St. Francis

Flow

August-13

FloBoss

	Casing			HRS	REMARKS
DATE	PSI			DOWN	(Maximum length 110 characters)
8/1/2013	75	88	9		
8/2/2013	75	88	9		
8/3/2013	71	84	9		
8/4/2013	72		9		
8/5/2013	62		9		
8/6/2013	53	66	9		
8/7/2013	47	60	9		
8/8/2013	51	64	9	•	
8/9/2013	54	67	9		
8/10/2013	52		9		
8/11/2013	49		9		
8/12/2013	49	62	9		
8/13/2013	49	62	9		
8/14/2013	50	63	9		
8/15/2013	50	63	9	0.5	
8/16/2013	61	74	9		
8/17/2013	61	74	9		
8/18/2013	62	75	9		
8/19/2013	64	77	9	1.5	
8/20/2013	87	100	9	1	
8/21/2013	83	96	9		
8/22/2013	87	100	9	5	
8/23/2013	69	82	9		
8/24/2013	81	94	9	1	
8/25/2013	86	99	9	1	
8/26/2013	53	66	9		
8/27/2013	48	61	9		
8/28/2013	47	60	9		
8/29/2013	90		9		
8/30/2013	84	97	9		
8/31/2013	85	98	9		

Total 279

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