Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Tes	t:	-		(See Instruct	tions on Re	verse Side	9)					
☐ Op	en Flow	AST		Tool Date				A D	l No. 15				
De	eliverabilty	/		Test Date 7/9/2015					3-20561-00 0	0			
Company		ources, Inc.				Lease Zimbeln	nan			1-24	Well Nu	mber	
County Cheyenr	ne	Locat NESW		Section 24		TWP 3S		RNG (E	/W)		Acres Attributed 80		
Field				Reservoi					thering Conn				
Cherry C				Niobrara					Systems In	С.			
9-10-200	04			1496'	k Total Dept			Packer :					
Casing S 4 1/2"	lize	Weigl 10.5#		Internal D 4.052	Diameter	Set a 153		Perfo 132	orations 16'	To 1364'	1364'		
Tubing Si	ize	Weigl	ht	Internal D	Diameter	Set a	at	Perfo	orations	То	То		
Type Con Single ((Describe) ntional)		Type Flui Dry Ga	d Production	1			nit or Traveling ing Unit	Plunger? Yes	7 No		
Producing		Annulus / Tubin	ıg)	% C	arbon Dioxi	de	٠	% Nitro	gen	Gas Gr .6	avity - (à,	
Vertical D				<u>-</u>	Pres	sure Taps		-		(Meter I	Run) (Pi	rover) Size	
1364'					Flan	ge				2"			
Pressure	Buildup:	= :		15 at 9		(AM)(PM)				15 at 9:25	(AM)(PM)	
Well on L	.ine:	Started 7-1	2	0 <u>15</u> at <u>9</u>	:25	(PM)	Taken <u>7-</u>	11	20	15 _{at} 10:10	(AM)(PM)	
					OBSERVE	D SURFAC				Duration of Shut-	in_24	Hours	
Static / Dynamic Property	namic Size Meter Differentia		Differential	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P _w) or (P	Pressure	Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Duration (Ноига)		d Produced Barrels)	
Shut-In	(IIICITes	psig (Pm)	Inches H ₂ 0	<u> </u>	-	psig 88	psia 102,4	psig	psia	_			
Flow						45	59.4		-	24	0		
					FLOW STR	EAM ATTR	IBUTES			_			
Plate	,	Circle one:	Press	0		Flowing						Flowing	
Coeffiec	ient	Meter or	Extension	Grav Fact	· 1 7	emperature	1	iation ctor	Metered Flor	w GOR (Cubic Fe	et/	Fluid	
(F _b) (F	p/	Prover Pressure psia	✓ P _m x h	F,		Engler		pv (Mcfd)		Barrel)		Gravity G _m	
							_		35	_			
				(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		/P V	²= 0.2	07	
(P _c) ² =		(P _w) ² =	=;	, P _d =	9	% (F	, ² - 14.4) +	14.4 =	:	(P _d)			
			Choose formula 1 or 2	:	$\overline{\Gamma}$	Backpre	ssure Curve		Г 7		Or	en Flow	
(P _c) ² - (I		(P _c) ² - (P _w) ²	1. P _c ² -P _a ²	LOG of formula			ps = "n" - or	n x	LOG	Antilog	Deli	verability	
(P _c) ² - (I	P _d) ²		2. $P_a^2 - P_d^2$ divided by: $P_a^2 - P_w^2$	1. or 2. and divide by:	P _c ² -P _w ²	As	signed ard Slope			Ū	1 '	R x Antilog (Mcfd)	
<u> </u>	-		awasa by: Fc - Fw	- Dy.		Starto	ata Glope	+	<u>_</u> _	<u> </u>	 		
-			_			 					<u> </u>		
				_		<u> </u>					<u> </u>		
Open Flo	w		Mcfd @ 14.	.65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a		
The	undersigr	ned authority, o	n behalf of the	Company, s	tates that h	e is duly au			-	ort and that he ha	ıs know	ledge of	
the facts s	tated the	rein, and that s	aid report is tru	e and correc	t. Executed	this the 1	B	day of _	December	·		20 15 .	
					KCC \	WICH!	16	Tal		Mail	14	<u> </u>	
		Witness (if any)		ADD	0 7 2018	`		For	Company	,		
		For Comm	nission		— <i>₩</i> ГК	U # ZU IL	J		Che	cked by			

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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 1-24 gas well on the grounds that said well:
(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 ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 12/18/15
KCC WICHITA Signature: Janual Marting APR 07 2016 RECEIVED

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.

W380 Zimbelman 01-24.

St. Francis St. Francis

None

July-15

	Tubing	Casing							F-	HRS	Water	REMARKS
DATE	PSI	PSI	STAT	C M	ICF	SPM		CYCLE	Ľ	OOWN	BBLS	(Maximum length 110 characters
7/1/2015			47	60		35	6.5		6	0	17	i
7/2/2015			47	60		35	6.5	•	6	0	17	1
7/3/2015			17	60	:	35	6.5	(6	0	17	1
7/4/2015			1 7	60	:	35	6.5	(6	0	17	•
7/5/2015			47	66	;	33	6.5	(6	0	17	•
7/6/2015			46	60	;	36	6.5	(6	2	. 17	•
7/7/2015			46	59		35	6.5	(6	0	17	•
7/8/2015			46	59	:	22	6.5	(6	16	17	turn off p u
7/9/2015			88	113		0	6.5	(6	24	0)
7/10/2015		ľ	73	117		0	6.5		6	14	0)
7/11/2015		1	00	102	:	27	6.5		6	0	0)
7/12/2015			85	87		41	6.5		6	0	0)
7/13/2015			53	72		10	6.5	(6	0	0	restart p u
7/14/2015			47	61		36	6.5		6	0		
7/15/2015			47	59		36	6.5		6	0	17	7
7/16/2015			47	60		36	6.5		6	0	17	,
7/17/2015			47	59		36	6.5		6	C	17	7
7/18/2015			45	59		36	6.5		6	C	17	1
7/19/2015			45	59		35	6.5		6	C	17	1
7/20/2015			45	58		35	6.5	i	6	C	17	1
7/21/2015			47	69		33	6.5		6	2	. 17	7
7/22/2015			46	59		35	6.5		6	C	17	7
7/23/2015			46	59		35	6.5	(6	0	17	1
7/24/2015			45	59		35	6.5		6	0	17	1
7/25/2015			45	58		35	6.5		6	0	17	1
7/26/2015			45	58		35	6.5		6	C	17	7
7/27/2015			45	58		35	6.5		6	C	17	7
7/28/2015			45	58		35	6.5		6	C	17	7
7/29/2015			45	58		35	6.5		6	C	17	7
7/30/2015			45	58		34	6.5		6	C	17	7
7/31/2015		_	45	58		34	6.5		6_	C	<u>)</u> 17	1
Total					10	ns					442)

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W380 Zimbelman 01 241

St. Francis

St. Francis

None

August-15

	Tubing	Casing						HRS		Water	REMARK\$
DATE	PSI	PSI	STATIC	MCF	SPM		CYCLE	DOWN		BBLS	(Maximum length 110 characters
8/1/2015			16 :	59	35	6.5		6	0	19	
8/2/2015		4	17	50	35	6.5	(6	0	19	
8/3/2015		4	6 :	59	35	6.5	(6	0	19	
8/4/2015		4	15	8	35	6.5	(6	0	19	
8/5/2015			15	8	35	6.5	(6	0	19	
8/6/2015		4	15 .	8	35	6.5	(6	0	19	
8/7/2015		4	16 .	59	35	6.5	(6	0	19	
8/8/2015			16 :	59	35	6.5	(6	0	19	
8/9/2015			18 (51	35	6,5	(6	0	19	
8/10/2015			50	53	35	6.5	(6	0	19	
8/11/2015		;	50	53	35	6.5		6	0	19	
8/12/2015			50	53	35	6.5	(6	0	19	
8/13/2015		:	51 (54	35	6.5	(6	0	19	
8/14/2015		:	il (54	35	6.5	(6	0	19	
8/15/2015		;	52	55	35	6.5	(6	0	19	
8/16/2015			52 (55	35	6.5	(6	0	19	
8/17/2015		:	51 (54	35	6.5		6	0	19	
8/18/2015		:	51 e	54	35	6.5		6	0	19	
8/19/2015			51 (54	35	6.5	(6	0	19	
8/20/2015			50	53	35	6.5	(6	0	19	
8/21/2015			51 (54	35	6.5		6	0	19	
8/22/2015			52	55	35	6.5		6	0	19	
8/23/2015		:	5 I	54	35	6.5		6	0	19	
8/24/2015		:	51 (54	35	6.5	(6	0	19	
8/25/2015			53	66	35	6.5		6	0	19	
8/26/2015			19	52	35	6.5	į	6	0	19	
8/27/2015			19	52	35	6.5	(6	0	19	
8/28/2015			19	52	35	6.5		6	0	19	
8/29/2015		;	52	55	34	6.5		6	0	19	
8/30/2015			55 (58	34	6.5		6	0	19	
8/31/2015			58	71	27	6.5		6	0	19	

Total 1075 589

KCC WICHITA APR 0.7 2016 RECEIVED W380

Zimbelman 01-24

St. Francis

St. Francis

None

September-15

-	Tubing	Casing						HRS	Water	REMARKS
DATE	PSI	PSI	STATIO	C MCF	SPM	CYC	CLE	DOWN	BBLS	(Maximum length 110 characters
9/1/2015			58	71	38	6.5	6		18	
9/2/2015			47	60	36	6.5	6	C	18	
9/3/2015			48	61	35	6.5	6	0	18	
9/4/2015			53	66	34	6.5	6	0	18	
9/5/2015			58	71	33	6.5	6	0	18	
9/6/2015			59	72	33	6.5	6	0	18	
9/7/2015			58	71	34	6.5	6	0	18	
9/8/2015			58	71	30	6.5	6	0	18	
9/9/2015			52	65	38	6.5	6	0	18	
9/10/2015			49	62	35	6.5	6	0	18	
9/11/2015			52	65	34	6.5	6	0	18	
9/12/2015			52	65	35	6.5	6	0	18	
9/13/2015			52	65	34	6.5	6	0	18	
9/14/2015			54	67	34	6.5	6	0	18	
9/15/2015			55	68	34	6.5	6	0	18	
9/16/2015			56	69	34	6.5	6	0	18	
9/17/2015			57	70	34	6.5	6	0	18	
9/18/2015			55	68	34	6.5	6	0	18	
9/19/2015			52	65	35	6.5	6	0	18	
9/20/2015			51	64	35	6.5	6	0	18	
9/21/2015			52	65	34	6.5	6	0	18	
9/22/2015			54	67	34	6.5	6	0	18	
9/23/2015			0	67	34	6.5	6	0	18	
9/24/2015			0	67	34	6.5	6	0	18	
9/25/2015			0	67	34	6.5	6	0	18	
9/26/2015			0	67	34	6.5	6	0	18	
9/27/2015			0	67	34	6.5	6	0	18	
9/28/2015			0	67	34	6.5	6	C	18	
9/29/2015			0	67	34	6.5	6	0	18	
9/30/2015		•	0	67	34	6.5	6	0	18	
10/1/2015			0	0	0	0	0	0	0	

Total 1029 540

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