KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		_	-1-4%			(See Ins	tructi	ons on Re	verse Side))						
□ Ор	en Flo	w E	AST									N N = 45					
Deliverabilty					Test Date: 6/22/14					'l No. 15 3-21263-001							
Company		esou.	rces, Inc.						Lease Zimbeln	nan				21-24	Vell Nu	mber -	
County Location Cheyenne NENW			Section 24					RNG (E/W) 41W				Acres Attributed 80					
* ****						Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.							
Completic 10/13/20		te				Plug Bac 1391'	k Total	Depti	h		Packer	Set at			-		
Casing Si 4 1/2"	ize		Weig 10.5		Internal Diamete 6.366			7	Set a 143		Perforations 1194'			To 1224'			
Tubing Si	ize		Weig	ht		Internal	Diamete	r	Set a	ıt	Perforations			То			
Type Con Single (Type Flui		ction			Pump L flowin	Init or Travelin	g Plunge	er? Yes	(No)		
	•		nulus / Tubir	ng)			Carbon E	Dioxic			% Nitro	<u> </u>		Gas Gr	avity - G		
Annulus	_			-										.6			
Vertical D	Depth(l	H)					Pressure Taps							•	Run) (Pi	over) Size	
1450'								lang						2"			
Pressure	Buildu		Shut in 6-			20_14_at_6						20			(AM(PM)	
Well on L	ine:		Started 6-2	22	2	0 14 at 6	:15		(AM) (PM)	Taken 6-	23	20	14 a	t_6:40	(AMX(PM)	
							OBSE	RVE	SURFAC	E DATA			Duratio	on_of Shut-	_{in_} 360) Hours	
Static / Orifice			Circle one: Meter Prover Pressure		Pressure Differential in Flowing Temperature		Well Head Wellhead Pre		Pressure	Tubing Wellhead Pressure		Duration (Hours)		Liquid Produced (Barrels)			
Property	1 , 1		psig (Pm)		hes H ₂ 0	t	t	t (P _w) or (P ₁)		psia	(P _w) or (P _L) or (P _c) psig psia			1. 102.0)		, <u>,</u>	
Shut-In									222	236.4			_		<u> </u>		
Flow	ļ	_					<u> </u>		49	63.4			360				
							FLOW	STR	EAM ATTR	IBUTES			- ,	_			
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press tension P _m xh	Fac	Gravity Factor F _g		Temperature		viation Metered Flo actor R F _{pv} (Mcfd)		ow GOR (Cubic Fee Barrel)		et/	Flowing Fluid Gravity G _m	
							_					8					
				_		•	, ,		ERABILITY	-			_'-		² = 0.2	07	
(P _c) ² =		- :	(P _w) ²		rmula 1 or 2	P _d =		<u> </u>	6 (F	o- 14.4) +	· 14.4 = _	 :	1	(P _d)	<u>'=</u>		
$(P_e)^2 - (P_a)^2$ or $(P_e)^2 - (P_d)^2$		(F	(P _o) ² - (P _w) ² 1. P _o ² - P _a ² 2. P _o ² - P _a ² divided by: P _o ² - P _a ²		LOG of formula 1. or 2. and divide by: P.2-P.		. 2 w	Backpressure Curve Slope ≈ "n" or Assigned Standard Slope		n x LOG		Antilog		Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				GIVIDED D	<u>re Tw</u>		<u> </u>	<u></u>	Siario								
	*									_							
Open Flo	w			Mc	fd @ 14.	.65 psia			Deliverat	oility			Mcfd €	14.65 psi	<u>a</u>		
		_	-			Company, a and correc						the above rep December	ort and		. :	0 14	
		.,,	, and MISAL	a (OP					Received PORATION CO				W	111	E LUD	2/	
			Witness	(if any)					3 2 5 2	015		Fo	г Сотрапу		7		
			For Con	mission			CO		RVATION DIV	ISION		Ch	ecked 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 Zimbelman 21-24
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: 12/12/14
Uate: 12/12/14
Received KANSAS CORPORATION COMMISSION FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS 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.

W2736

Zimbelman 21-24

St. Francis

St. Francis

Flow

June-184

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	51				
6/2/2013	56				
6/3/2013	49				
6/4/2013	63				
6/5/2013	46				
6/6/2013	47				
6/7/2013	176				
6/8/201	190				
6/9/201 3	202				
6/10/2013	213				
6/11/201	223				
6/12/2018	228		C		
6/13/201	229				
6/14/201	230				
6/15/2013	230				
6/16/2013	231				
6/17/2013	231	244	C	24	
6/18/2013	231	244	0	24	
6/19/201B	226		C		
6/20/201 \$	224	237	C	24	
6/21/201\$	222	235	C	24	
6/22/2013	222				
6/23/2013	117			. 5	
6/24/2013	107		14	0	
6/25/2013	101				
6/26/2013	90				
6/27/2013	83				
6/28/2013	51				
6/29/2013	49	62			
6/30/201\$	51	64	10	0	
7/1/2013				0	

177

Total

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CONSERVATION DIVISION WICHITA, KS

W2736

Zimbelman 21-24

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	51		10		_
7/2/2014	51	64	9	0	
7/3/2014	51	64	9	0	
7/4/2014	51	64	9	0	
7/5/2014	52	65	9	0	
7/6/2014	53	66	9	0	
7/7/2014	53	66	9	0	
7/8/2014	55	68	9	0	
7/9/2014	55	68	9	0	
7/10/2014	55	68	9	0	
7/11/2014	58	71	9	0	
7/12/2014	58	71	9	0	
7/13/2014	59	72	9	0	
7/14/2014	87	100	8	0	
7/15/2014	48	61	8	0	
7/16/2014	50	63	8	0	
7/17/2014	50	63	8	0	
7/18/2014	51	64	8	0	
7/19/2014	48	61	8	0	
7/20/2014	50	63	8	0	
7/21/2014	134	147	8	0	
7/22/2014	139	152	2	22	
7/23/2014	75	88	11	7	
7/24/2014	57	70	9	3	
7/25/2014	49	62	9	4	
7/26/2014	48	61	8	0	
7/27/2014	49	62	8	0	
7/28/2014	49	62	8	0	
7/29/2014	49	62	8	0	
7/30/2014	50	63	8	0	
7/31/2014	51	64	8	0	

Total 261

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W2736

Zimbelman 21-24

St. Francis

St. Francis

Flow

August-14

FloBoss

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN	[]	(Maximum length 110 characters)
8/1/2014	37			8	0	
8/2/2014	36			8	0	
8/3/2014	49			8	0	
8/4/2014	50	63		8	0	
8/5/2014	51			8	0	
8/6/2014	51	64		8	0	
8/7/2014	53			7	0	
8/8/2014	52	65		7	0	
8/9/2014	54			7	0	
8/10/2014	55			7	0	
8/11/2014	55			7	0	
8/12/2014	49			7	0	
8/13/2014	50	63		7	0	
8/14/2014	49	62		7	0	
8/15/2014	55	68		7	3	
8/16/2014	54	67		7	0	
8/17/2014	55	68		7	0	
8/18/2014	55	68		7	0	
8/19/2014	63	76		7	2	
8/20/2014	53	66		7	0	
8/21/2014	52	65		7	0	
8/22/2014	55	68		7	0	
8/23/2014	49			7	0	
8/24/2014	51			7	0	
8/25/2014	66			7	0	
8/26/2014	52			7	0	
8/27/2014	63	76		7	0	
8/28/2014	115			7	0	
8/29/2014	47	60		7	5	
8/30/2014	48			7	0	
8/31/2014	63	76		7	0	

Total 223

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CONSERVATION DIVISION WICHITA, KS