KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

, I t

Type Test	::	_	- }		6	See Instruc	ctions on Re	erse Side	9)					
Open Flow			Test Date:				ADI	No. 46						
De	liverabili	У			6/22/14	9;				No. 15 3-20793-01 0	10			
Company		ourc	es, Inc.				Lease Zweyga	rdt			34-19	Well Nu	mber	
County Location 5			Section 19	Section TWP			RNG (E/	W)		Acres Attributed 80				
Field Cherry C					Reservoir Niobrara	Reservoir				Gas Gathering Connection Branch Systems Inc.				
Completic 7/30/200	on Date				Plug Back	k Total Dep	oth		Packer S				-	
Casing Si		_	Weight		Internal Diameter Set at 6,366 1622'					rations 2' MD	To 424' I	то 424' MD Open Hole		
Tubing Si	ze		Weight			Internal Diameter Set at			Perfo	rations in Hole	То			
Type Con Single (Type Fluid					nit or Traveling	Plunger? Yes	ger? Yes No		
Producing	Thru (/ ulus / Tubing)		arbon Diox	tide		% Nitrog	-		ravity - (3,	
Annulus Vertical D			<u> </u>			Dro	ssure Taps				.6	Bun\ /D	rover) Size	
1338'	ehա(n)					Flan	•				2"		10001) 3128	
Pressure	Buildup	: S	hut in <u>6-7</u>		0 14 at 9:		(AM)(PM)	Taken_6	-18	20	14 at 10:05		AM)(PM)	
Well on L	ine:	S	tarted 6-22	2 2	0 <u>14</u> at <u>1</u>	0:05	(AM) (PM)	Taken 6-	23	20	14 at 10:50	(AM) (PM)	
						OBSERVE	ED SURFACE	DATA			Duration of Shu	-in _360) Hours	
Static / Dynamic Property	Orifice Size (inches	ا	Circle one: Meter Prover Pressu	Pressure Differential re in	Flowing Temperature t	Well Head Temperature	Casi Wellhead (P,) or (P	Pressure	Wellhe	fubing ad Pressure r (P _t) or (P _c)	Duration (Hours)		d Produced Barrels)	
Shut-In	(110110	"	psig (Pm)	Inches H ₂ 0			psig 205	psia 219.4	psig _	psia				
Flow							59	73.4		 	360	0		
J <u>-</u> 1					I	FLOW STI	BEAM ATTR	BUTES	•	_ _	<u> </u>			
Plate Coeffica (F _b) (F Mcfd	ient ,)	A	ircle one: Meter or er Pressure psia	Press Extension	Grav Fact	tor	Flowing Temperature Factor F _{II}	Fa	iation Leter	Metered Flor R (Mcfd)	W GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m	
				_			_			10				
(D.)2			/D \2			OW) (DELIV	/ERABILITY)	CALCUL - 14.4) +)² = 0.2)² =	07	
$(P_c)^2 =$	T	<u>. </u>	(P _w)² ≔	Choose formula 1 or 2	P _a =					 _	<u></u>			
(P _c) ² - (F or (P _c) ² - (F	P _a) ² P _d) ²	(P _c)²- (P _w)²	1. P _c ² - P _s ² 2. P _c ² - P _d ² livided by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slor Ass	ssure Curve e = "n" or signed ard Slope	n x	LOG	Antilog	Del Equals	oen Flow iverability i R x Antilog (Mcfd)	
				w		<u></u>	<u> </u>				_			
Open Flor				 Mcfd @ 14,	65 neia			ility			Mcfd @ 14.65 p:	sia		
		ned	authority or	_		states that 1			o make th	ne above rend	ort and that he h		ledge of	
	•		•	id report is true		t. Executed	d this the 12			ecember			20 14	
					KA		eceived DRATION COMM	IISSION	Zel	will	Mai	tui	w	
			Witness (if	any)		FEB	2 5 2015			Fore	Company		<i>-</i>	
			For Commi	ssion		CONSERV	ATION DIVISIO)N		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 Zweygardt 34-19H
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.
Received KANSAS CORPORATION COMMISSION Signature: FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS Received Signature: Production Assistant 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.

W2410

Zweygardt 34-19H

St. Francis

St. Francis

Flow

June-134

	Casing		HR	s	REMARKS
DATE	_	STATIC MCF		WN	(Maximum length 110 characters)
6/1/20134	57	70	0	0	(
6/2/2013	62	75	0	0	
6/3/2013	59	72	Ŏ	Ō	
6/4/2018	74	87	0	0	
6/5/2013	51	64	0	0	
6/6/201	52	65	0	0	
6/7/2013	130	143	0	9	
6/8/2013	180	193	0	24	
6/9/2013	183	196	0	24	
6/10/2013	185	201	0	24	
6/11/201	185	201	0	24	
6/12/2013	190	203	0	24	
6/13/2013	189	202	0	24	
6/14/2013	189	202	0	24	
6/15/2013	190	203	0	24	
6/16/2013	191	204	0	24	
6/17/2013	191	204	0	24	
6/18/2013	205	218	0	24	
6/19/2013	201	214	0	24	
6/20/2013	201	214	0	24	
6/21/2018	200	213	0	24	
6/22/2013	200	213	0	24	
6/23/2013	134	147	1	5	
6/24/2013	112	125	0	0	
6/25/2013	104	117	0	0	
6/26/2013	105	118	0	0	
6/27/2013	_ 84	97	0	0	
6/28/2013	62	75	0	0	
6/29/2018	60	73	0	0	
6/30/2013	57	70	0	0	
7/1/2013				0	

1

Total

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CONSERVATION DIVISION WICHITA, KS

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Zweygardt 34-19H

St. Francis

St. Francis

Flow

July-14

	Casing		HF		REMARKS
DATE	PSI S	STATIC MCF	D0	NWC	(Maximum length 110 characters)
7/1/2014	57	70	0	0	
7/2/2014	56	69	0	0	
7/3/2014	57	70	0	0	
7/4/2014	57	70	0	0	
7/5/2014	59	72	0	0	
7/6/2014	59	72	0	0	
7/7/2014	73	86	0	0	
7/8/2014	59	72	0	0	
7/9/2014	60	73	0	0	
7/10/2014	60	73	0	0	
7/11/2014	62	75	0	0	
7/12/2014	63	76	0	0	
7/13/2014	64	77	0	0	
7/14/2014	78	91	0	0	
7/15/2014	53	66	0	0	
7/16/2014	53	66	0	0	
7/17/2014	57	70	0	0	
7/18/2014	56	69	0	0	
7/19/2014	69	82	22	0	Open up backside and produce
7/20/2014	69	82	22	0	•
7/21/2014	113	126	20	0	
7/22/2014	176	189	3	22	
7/23/2014	105	118	20	7	
7/24/2014	90	103	25	3	
7/25/2014	80	93	20	4	
7/26/2014	71	84	26	0	
7/27/2014	70	83	23	0	
7/28/2014	70	83	22	0	
7/29/2014	70	83	20	0	
7/30/2014	67	80	20	0	
7/31/2014	66	79	18	0	

Total 261

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CONSERVATION DIVISION WICHITA, KS

W2410

Zweygardt 34-19H

St. Francis

St. Francis

Flow

August-14

	Casing		HRS	REMARKS
DATE	PSI	STATIC MCF	DOWN	(Maximum length 110 characters)
8/1/2014	65	78	17	0
8/2/2014	64	77	17	0
8/3/2014	62	75	15	0
8/4/2014	60	73	14	0
8/5/2014	59	72	12	0
8/6/2014	59	71	10	0
8/7/2014	60	73	10	0
8/8/2014	59	72	0	0 shut in not flowing gas
8/9/2014	60	73	0	0
8/10/2014	85	98	0	0
8/11/2014	96	109	0	0
8/12/2014	98	111	0	0
8/13/2014	118	131	0	0
8/14/2014	67	80	5	0
8/15/2014	70	83	3	3
8/16/2014	68	81	3	0
8/17/2014	68	81	3	0
8/18/2014	64	77	0	0
8/19/2014	88	101	0 2	2 shut in at meter
8/20/2014	88	101	10	0
8/21/2014	117	130	0	0 bring on at 6 mcf
8/22/2014	69	82	2	0
8/23/2014	63	77	0	0
8/24/2014	56	69	0	0 opened more 18 mcf
8/25/2014	70	83	4	0
8/26/2014	60	73	4	0
8/27/2014	60	73	4	0
8/28/2014	60	73	4	0
8/29/2014	54	67	0 :	5 shut in at shed
8/30/2014	72	85	0	0
8/31/2014	95	108	0	0

Total 137

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