KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:		ASI		(See Instruc	tions on R	everse Side	9)			
Open Flow SSC				Test Date 6/22/14	Test Date: API No. 15 6/22/14 023-21256-00 0							
Company		sou	rces, Inc.				Lease Zweyg	ardt			14-19	Well Number
County Location 5			Section 19				RNG (E/W) Acres Attributed 40W 80			Acres Attributed		
<u> </u>				Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.					
Completion Date 9/16/2010			Plug Back Total Depth 1500'				Packer §	Set at				
Casing S 4 1/2"	Casing Size Weight 4 1/2" 10.5#			Internal Diameter 6.366		Set at 1539'		Perforations 1314'		то 1344'		
Tubing Si	ize		Weigh	t	Internal Diameter Set at			Perforations To				
Type Con Single (Conv	ent	ional)		Type Flui Dry Ga	d Productio	n		Pump Ui flowing	nit or Traveling		(No)
Annulus	S	,	nulus / Tubing)	% C	arbon Dioxi	ide		% Nitrog	jen	Gas Gra .6	avity - G _o
Vertical D	epth(H)				Pres Flan	sure Taps ge				(Meter F 2"	Run) (Prover) Size
Pressure	Buildup):	Shut in <u>6-7</u>	2	14 at 5	:40	(AM)(PM)	Taken 6	-18	20	14 at 5:55	(AM((PM))
Well on L	ine:		Started 6-22	22	0 14 at 5	:55	(AM) (PM)	Taken 6-	23	20	14 at 6:20	(AM)(PM)
						OBSERVE	D SURFAC	E DATA	_		Duration of Shut-i	n_360 Hours
Static / Dynamic Property	Static / Orifice Meter Dynamic Size Prover Pr Property (inches)		Circie one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Differential Temperature Tel		Well Head Temperature t Casing Wellhead Pressure (P,) or (P,) or (Pc)		Tubing Welihead Pressure (P _w) or (P ₁) ar (P _c)		Duration (Hours)	Liquid Produced (Barrels)
Shut-in			psig (i iii)	11000 1120			230	psia 244.4	psig	psia		
Flow	·						73	87.4			360	
			Circle one:		- 	FLOW STF	Flowing	RIBUTES				
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Meter or Prover Pressure psia Press Extension Pmxh		Fac	Gravity Te		Deviation Factor F _{pv}		Metered Flow R (Mcfd)	W GOR (Cubic Fee Barrel)	Flowing Fluid Gravity
										19		
_					(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(P.)²	= 0.207
(P _c) ² =		<u>:</u>	(P _w) ² =	<u>_</u> :	$P_d =$		% (P _c - 14.4 <u>)</u> +	14.4 =	:	(P _d) ²	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$ (P_c)^2 - (P_w)^2 $ Choose formula 1 or 2: $ 1. P_c^2 - P_a^2 $ $ 2. P_c^2 - P_a^2 $ $ divided by: P_c^2 - P_w^2 $		LOG of formula 1, or 2, and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo				Mcfd @ 14,	.65 psia		Delivera	——————————————————————————————————————			Mcfd @ 14.65 psi	 a
The	undersi	gned	d authority, or	behalf of the	Company. s	tates that h	ne is duly a	uthorized to	o make th	ne above repo	ort and that he ha	s knowledge of
		-	-	id report is tru		t. Executed	•	2	day of _C	ecember		, 20 14 .
			Witness (il	any)	KAN	ISAS CORPOR	2 5 2015		w	<u>IMU</u>	Company	tuey
			For Comm	ssion		CONSEDIV.		_		Che	cked by	

CONSERVATION DIVISION 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 Zweygardt 14-19 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
Received 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.

W2741

Zweygardt 14-19

St. Francis

St. Francis

Flow

June-134

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF_	DOWN	(Maximum length 110 characters)
6/1/2013 4	75				
6/2/2013	78		14		
6/3/201	86				
6/4/201	84				
6/5/2013	70		19		
6/6/201	71	84			
6/7/201	176				
6/8/2013	189				
6/9/201	200				
6/10/201	213				
6/11/201	222				
6/12/2013	227				
6/13/2013	228		0		
6/14/2013	229				
6/15/2013	230		0		
6/16/2018	230				
6/17/201 \$	231	144	0		
6/18/201 3	230		0		
6/19/201 B	226				
6/20/2013	223				
6/21/201 \$	221	234			
6/22/201	122				
6/23/2013	147				
6/24/2013	118		35		
6/25/2013	122				
6/26/2013	109				
6/27/201 \$	103				
6/28/2013	80		24		
6/29/201	77				
6/30/201 3	78	91	22		
7/1/2013				0	

Total 327

RECEIVED KANSAS CORPURATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION WICHITA, KS

W2741

Zweygardt 14-19

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	78		2		
7/2/2014	76	89	2	1 0	l'
7/3/2014	76	89	2	1 0	1
7/4/2014	76	89	2	1 0	
7/5/2014	77				
7/6/2014	77	90	2	1 0	1
7/7/2014	85	98	2	0 0	
7/8/2014	77	90	2		
7/9/2014	78	91	2	0 0	
7/10/2014	79	92	2	0 (1
7/11/2014	81	94	2		
7/12/2014	79	92	2		
7/13/2014	79	92	1	9 0	
7/14/2014	92	105	1	9 0	
7/15/2014	73	86	1	9 0	
7/16/2014	73	86	1	9 0	1
7/17/2014	74	87	1	9 0	1
7/18/2014	76	89	1	9 0	
7/19/2014	72			9 0	ľ
7/20/2014	72	85	1		
7/21/2014	145	158	1	9 0	t
7/22/2014	151	164		8 22	
7/23/2014	96	109	2	2 7	
7/24/2014	82	95	2	0 3	
7/25/2014	72	85	1	9 4	
7/26/2014	71	84	1	9 0	
7/27/2014	70	83	1	9 0	l
7/28/2014	71	84	1		
7/29/2014	72	85	1	9 0	1
7/30/2014	72	85			
7/31/2014	72	85	1	90	<u> </u>

Total 600

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS

W2741

Zweygardt 14-19

St. Francis

St. Francis

Flow

August-14

FloBoss

	Casing			HRS	REMARKS
DATE _	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
8/1/2014	72	85	19	0	
8/2/2014	71	84	19	0	
8/3/2014	70	83	18	0	
8/4/2014	70	83	18	0	
8/5/2014	71	84	18	0	
8/6/2014	73	86	18	0	
8/7/2014	72	85	18	0	
8/8/2014	73	86	18	0	
8/9/2014	73	86	18	0	
8/10/2014	75				
8/11/2014	81			0	
8/12/2014	70	83	17	0	
8/13/2014	71				
8/14/2014	70	83	18	0	
8/15/2014	75	88	18	3	
8/16/2014	74	87	18	0	
8/17/2014	75	88	18	0	
8/18/2014	74	87	17	0	
8/19/2014	80	93	17	2	
8/20/2014	72	85	17	0	
8/21/2014	71	84	17	0	
8/22/2014	78	91	17	0	
8/23/2014	69			0	
8/24/2014	70				
8/25/2014	87				
8/26/2014	70		17		
8/27/2014	76	89			
8/28/2014	118		17		
8/29/2014	69	82	17	5	
8/30/2014	69	82	17	0	
8/31/2014	77	90	17	0	

Total 545

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS