KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			((See Instruc	tions on Re	everse Side	7)				
Or	Open Flow DEST											
Deliverability Test Date: 7/8/2015					API No. 15 023 - 2063 1- 00 00							
Company Rosewo		ources, Inc.			Lease Rudolph					33-09	Well Number	
County Location Cheyenne NWSE/4			Section 9				RNG (E/W) 41W			Acres Attributed 80		
Field St. Francis				Reservoir Niobrara				thering Conn Systems In				
Completic 10/21/20				Plug Bac 1540'	k Total Dep	th_	-	Packer	Set at			
Casing S 2 7/8"	ize	Weight 6.5#		Internal I 2.441	Diameter	Set at 1540'		Perforations 1421'		то 1453'		
Tubing Si	ize	Weight		Internal [Diameter	Set	at	Perfo	orations	To		
Single (Conve			Type Fluid Production				Pump Unit or Traveling Prifowing			Plunger? Yes (No)	
Annulus	3	Annulus / Tubing		% Carbon Dioxide			% Nitros	gen	Gas Gr .6	Gas Gravity - G _g .6		
Vertical D	epth(H)			Pressure Taps Flange				_		(Meter I	Run) (Prover)	Size
Pressure	Buildup:			15 at 10:15 (PM)						15 at 10:30	AM)(F	 РМ)
Well on L	ine:	Started 7-9	2	20 15 at 10:30 (PM) Taken 7-10					20	15 at 11:15	(AMD)F	PM)
		Circle one:			OBSERVE	D SURFAC				Duration of Shut-	24	Hours
Static / Orifice Meter Dynamic Size Prover Press		Meter Prover Pressur	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Wellhe	Tubing ead Pressure or (P _t) or (P _c) psia	Duration (Hours)	Liquid Produ (Barrels)	
Shut-In						173	187.4		para			
Flow		<u> </u>	<u></u>		<u> </u>	31	45.4		<u> </u>	24	0	
					FLOW STR	EAM ATT	BUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Gircle one: Meter or Prover Pressure psia	Press Extension	Grav Fact	tor 1	Flowing Femperature Factor F _{ft}	Fa	ation ctor	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	et/ Flu Gra G	uid vity
			<u>-</u>						11	_		7
	. •			(OPEN FLO	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(P _a)	= 0.207	
$\frac{(P_c)^2}{(P_c)^2}$		(P _w) ² =_	:	$P_d =$		% <u>(</u>	P _c - 14.4) +	<u> 14.4 </u>	: _	(P _d)	<u>' </u>	
$(P_c)^2 - (P_d)^2$ $(P_o)^2 - (P_w)^2$		(P _o) ² - (P _w) ²	hoose formula 1 or 2: 1. $P_c^2 - P_4^2$ 2. $P_c^2 - P_d^2$ vided 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 Flor Deliverabil Equals R x A (Mcfd)	lity
_												
Open Flov	·		Mcfd @ 14.0	SE pola		Deliverat					<u></u>	
							:			Mcfd @ 14.65 psi		
		ed authority, on ein, and that sai				_	_		ne above repo December	rt and that he ha	s knowledge _{, 20} <u>15</u>	
				KC	C WIC	ATIH		and	ull 7	maite	ily.	
		Witness (if a	iny)	АΓ	ייברו כוכ ייברו כוכ)በ ነ ር		00	For C	Company	/	_
		For Commis	sion	——— Al	2R 07 2	(UIQ -			Chec	ked 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 Rudolph 33-9 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
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: _12/28/15
Signature: Cercul Martay Title: Production Assistant 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.

W441 Rudolph 33-9

St. Francis

St. Francis

None

July-15

	Casing		I	IRS	REMARKS
DATE	PSI	STATIC MCF	I	OOWN	(Maximum length 110 characters)
7/1/2015	34	47	6	0	
7/2/2015	34	46	6	0	
7/3/2015	34	46	11	0	
7/4/2015	34	46	11	0	
7/5/2015	34	46	6	0	
7/6/2015	31	52	11	2	
7/7/2015	34	46	11	0	
7/8/2015	34	45	11	16	
7/9/2015	58	45	0	24	
7/10/2015	173	143	0	14	
7/11/2015	87	105	14	0	
7/12/2015	60	81	13	0	
7/13/2015	40	68	12	0	
7/14/2015	36	49	11	0	
7/15/2015	36	44	5	0	
7/16/2015	36	46	10	0	
7/17/2015	36	46	9	0	
7/18/2015	31	46	10	0	flowing 9
7/19/2015	31	45	11	0	
7/20/2015	31	46	6	0	
7/21/2015	33	32	9	2	meter 0, rplcd battery
7/22/2015	36	46	10	0	·
7/23/2015	34	46	11	0	
7/24/2015	32	46	11	0	
7/25/2015	31	46	11	0	
7/26/2015	31	45	11	0	
7/27/2015	33	45	11	0	
7/28/2015	31	45	11	0	
7/29/2015	31	45	11	0	
7/30/2015	31	45	11	0	
7/31/2015	31	45	11	0	

Total 292

KCC WICHITA APR 0 7 2016 RECEIVED W441 Rudolph 36-9

St. Francis

St. Francis

None

August-15

	Casing		ŀ	HRS	REMARKS
DATE	PSI	STATIC MCF	I	OOWN	(Maximum length 110 characters)
8/1/2015	32	45	11	0	
8/2/2015	33	46	11	0	
8/3/2015	34	47	11	0	
8/4/2015	32	45	11	0	
8/5/2015	32	45	11	0	
8/6/2015	32	45	11	0	
8/7/2015	32	45	11	0	
8/8/2015	32	45	11	0	
8/9/2015	32	45	11	0	
8/10/2015	32	45	11	0	
8/11/2015	32	45	11	0	
8/12/2015	33	46	11	0	
8/13/2015	33	46	11	0	
8/14/2015	34	47	11	0	•
8/15/2015	34	47	10	0	
8/16/2015	36	49	11	0	
8/17/2015	35	48	10	0	
8/18/2015	35	48	11	0	
8/19/2015	36	49	10	0	
8/20/2015	35	48	11	0	
8/21/2015	36	49	10	0	
8/22/2015	37	50	11	0	
8/23/2015	38	51	10	0	
8/24/2015	38	51	1 I	0	
8/25/2015	39	52	11	0	
8/26/2015	36		11	0	
8/27/2015	36		11	0	
8/28/2015	35		11	0	
8/29/2015	38		10	0	
8/30/2015	41	54	10	4	
8/31/2015	44	57	11_	0	

Total 334

KCC WICHITA APR 0.7 2016 RECEIVED W441

Rudolph 33 9 = -

St. Francis

St. Francis

None

September-15

	Casing			HRS	REMARKS
DATE _	PSI	STATIC MCF)	DOWN	(Maximum length 110 characters)
9/1/2015	53	66	11	0	
9/2/2015	30	43	10	0	
9/3/2015	30	43	11	0	
9/4/2015	34	47	10	0	
9/5/2015	40	53	10	0	
9/6/2015	44	57	10	0	
9/7/2015	43	56	10	0	
9/8/2015	41	54	10	0	
9/9/2015	39	52	11	0	
9/10/2015	31	44	10	0	
9/11/2015	36	49	11	0	
9/12/2015	38	51	10	0	
9/13/2015	38	51	11	0	
9/14/2015	39	52	10	0	
9/15/2015	41	54	11	0	
9/16/2015	43	56	10	0	
9/17/2015	44	57	10	0	
9/18/2015	44	57	11	0	
9/19/2015	40	53	11	0	
9/20/2015	38	51	10	0	
9/21/2015	40	53	10	0	
9/22/2015	42	55	10	0	
9/23/2015	43	56	10	0	
9/24/2015	0	56	10	0	
9/25/2015	0	56	10	0	
9/26/2015	0	56	10	0	
9/27/2015	0	56	10	0	
9/28/2015	0	56	10	0	
9/29/2015	0	56	10	0	
9/30/2015	0	56	10	0	
10/1/2015	0	0	0	0	

Total 308

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