KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:		MT		(See Instruci	tions on Re	verse Side)						
Op	en Flov	N	NOT.		Test Date				A DI	No. 15					
De	eliverabi	ilty			7/9/201					023-20586 -	-0000				
Company		sou	rces				Lease Isernha	gen				1-22	Vell Nu	mber	
County Cheyenr	ne		Locatio	n	Section TV 22 39			RNG (E/W) 41W					Acres Attributed 80		
Field St. Francis					Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.							
Completion 9/10/200		е	<u> </u>	<u>_</u> _	Plug Bac 1441'	k Total Dept	th		Packer S	et at					
Casing Size Weight 4 1/2" 10.5#				Internal D 4.052	Diameter	Set at 1490'		Perfo 132	rations O'	т _о 1358'					
Tubing Si	ize		Weight		Internal D	Diameter	Set	at	Perfo	rations		То			
Type Con Single (Type Flui Dry Ga	d Production	า			nit or Traveling	Plunger?	Yes	No No		
Producing	_	(Anr	nulus / Tubing)	% C	arbon Dioxi	de	_ <u></u>	% Nitrog	en		Gas Gra .6	vity - G	3,	
Vertical D	Depth(H	1)				Pres Flan	sure Taps ge					(Meter R 2"	un) (Pi	rover) Size	
Pressure	Buildu	o: ·	Shut in 7-9		0 15 at 1	1:10	(AM))(PM)	Taken_7-	10	20	15 at_	11:20	(AM) (PM)	
Well on L			Started 7-10		0 <u>15</u> at <u>1</u>	1:20				20			(AM)(PM)	
	_					OBSERVE	D SURFAC	E DATA			Duration	of Shut-in	24	Hours	
Static / Dynamic Property	Static / Orifice Dynamic Size Property (inches)		Circle one: Meter Prover Pressui psig (Pm)	Pressure Differential in Inches H ₂ 0	lemperature lemperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _o) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₀) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-in							173	187.4	paig	рыа			-		
Flow				<u> </u>			49	63.4			24	_	0		
	- 1				-	FLOW STR	Flowing	BUTES			 -				
Coeffied (F _b) (F	Coefficient Meter		Circle one: Meter or ver Pressure psia	Press Extension P _m x h	Fact	Gravity Te		Fa	iation ctor : pv	tor R		GOR (Cubic Fee Barrel)	t/	Flowing Fluid Gravity G _m	
										2					
					(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS				= 0.2	07	
(P _c) ² =	·	<u>-:</u>		Choose formula 1 or 2	P _d =	<u></u>	% (I	P _c - 14.4) +	14.4 =	:		(P _d) ²	<u>-</u>		
	$ \begin{array}{c cccc} (P_c)^2 - (P_a)^2 & (P_c)^2 - (P_w)^2 & 1. P_c^2 \\ or \\ (P_c)^2 - (P_d)^2 & 2. P_c^2 \\ \end{array} $		1. P ₀ ² -P ₆ ² 2. P ₀ ² -P ₀ ²	LOG of formula 1, or 2. and divide	P.2. P.2	Šlo	essure Curve pe = "n" - or ssigned	. n x	n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
 		<u> </u>		livided by: Pc2~P	by:	<u> </u>	Stant	lard Slope		_ _ _	- -			· <u>-</u> -	
Open Flo	w			Mcfd @ 14.	65 psia		Deliveral	oility		-	Mcfd @ 1	4.65 psia	1		
		-		behalf of the					day of _D	ecember	ort and the	at he has		ledge of 20 <u>15</u> .	
			Witness (if	any)		(CC W	/ICHI&	52	rd.	all For	TU_C Company	elec			
			For Commi			APR 0	7 2016			Che	cked by				

RECEIVED

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 Isernhagen 1-22
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. Date: 12/18/15
KCC WICHITA Signature: Janual Marting Title: Production Assistant 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.

W349 Isemhageni01-22

St. Francis

St. Francis

None

July-15

	Tubing	Casing					HRS	V	<i>l</i> ater	REMARKS
DATE	PSI	PS1	STAT	IC MCF	SPM	CYCLE	DOW	N B	BLS	(Maximum length 110 characters
7/1/2015	_		52	66	2	0	0	0	0	
7/2/2015			52	66	2	0	0	0	0	
7/3/2015		;	52	66	2	0	0	0	0	
7/4/2015			52	66	2	0	0	0	0	
7/5/2015			52	66	2	0	0	0	0	
7/6/2015		:	51	69	3	0	0	2	0	
7/7/2015		:	51	65	2	0	0	0	0	
7/8/2015		:	51	64	2	0	0	16	0	
7/9/2015		•	71	145	0	0	0	24	0	
7/10/2015		1	73	179	0	0	0	14	0	
7/11/2015		9	97	119	6	0	0	0	0	
7/12/2015		•	77	96	2	0	0	0	0	
7/13/2015			59	82	2	0	0	0	0	
7/14/2015			52	67	2	0	0	0	0	
7/15/2015			52	64	2	0	0	0	0	
7/16/2015			52	65	2	0	0	0	0	
7/17/2015			52	64	2	0	0	0	0	
7/18/2015			51	64	2	0	0	0	0	
7/19/2015			51	64	2	0	0	0	0	
7/20/2015			51	63	2	0	0	0	0	
7/21/2015			52	72	2	0	0	2	0	
7/22/2015			50	64	2	0	0	0	0	
7/23/2015			50	63	2	٥	0	0	0	
7/24/2015			51	63	2	0	0	0	0	
7/25/2015			50	63	2	0	0	0	0	
7/26/2015			50	63	2	Ō	0	0	0	
7/27/2015			49	62	2	0	0	0	0	
7/28/2015			49	62	2	0	0	0	0	
7/29/2015			49	62	2	Ō	0	Ö	0	
7/30/2015			49	62	2	0	0	0	0	
7/31/2015			49	62	2	0	0	0	0	

Total 63 0

KCG WICHITA APR 0.7 2016 RECEIVED W349 Isembagen01-221

St. Francis

St. Francis

None

August-15

	Tubing	Casing	,				HRS	•	Water	REMARKS
DATE	PSI	PSI	5	STATIC MCF	SPM	CYCLE	DOWN	1	BBLS	(Maximum length 110 characters
8/1/2015			49	63	2	0	0	0	0	•
8/2/2015			50	63	2	0	0	0	0	
8/3/2015			51	64	2	0	0	0	0	
8/4/2015			49	63	2	0	0	0	0	
8/5/2015			49	62	2	0	0	0	0	
8/6/2015			49	62	2	0	0	0	0	
8/7/2015			49	63	2	0	0	0	0	
8/8/2015			49	65	2	0	0	0	0	
8/9/2015			49	67	2	Ó	0	0	0	
8/10/2015			49	69	2	0	0	0	0	
8/11/2015			49	69	2	0	0	0	0	
8/12/2015			49	70	2	0	0	0	.0	
8/13/2015			49	70	2	0	0	0	0	
8/14/2015			49	70	2	0	0	0	0	
8/15/2015			49	71	2	0	0	0	0	
8/16/2015			49	71	2	0	0	0	0	
8/17/2015			49	70	2	0	0	0	0	
8/18/2015			49	70	2	0	0	0	0	
8/19/2015			49	71	2	0	0	0	0	
8/20/2015			49	70	2	0	0	0	0	
8/21/2015			49	70	2	0	0	0	0	
8/22/2015			49	71	2	0	0	0	0	
8/23/2015			49	71	2	0	0	0	0	
8/24/2015			58	70	2	0	0	0	0	
8/25/2015			58	71	2	0	0	0	0	
8/26/2015			58	68	2	0	0	0	0	
8/27/2015			58	68	2	0	0	0	0	
8/28/2015			58	68	2	0	0	0	0	
8/29/2015			58	71	2	0	0	0	0	
8/30/2015			58	73	2	0	0	4	0	
8/31/2015			58	75	2	0	0	0	0	_
Total					62				0	

KCC WICHITA APR 0.7 2016 RECEIVED W349 Isemhagen 01-22

St. Francis

St. Francis

None

Total

j

September-15

	Tubing	Casing					HRS	Water		REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS		(Maximum length 110 characters
9/1/2015		6	9 82	,		0	0	0	0	
9/2/2015		5	3 66	2	2	0	0	0	0	
9/3/2015		5	4 67	:	2	0	0	0	0	
9/4/2015		5	8 71	2	2	0	0	0	0	
9/5/2015		6	3 76	- 2	2	0	0	0	0	
9/6/2015		6	5 78	- 2	2	0	0	0	0	
9/7/2015		6	4 77	2	2	0	0	0	0	
9/8/2015		6	3 76	2	2	0	0	0	0	
9/9/2015		6	0 73	2	2	0	0	0	0	
9/10/2015		5	5 68		2	0	0	0	0	
9/11/2015		5	8 71		2	0	0	0	0	
9/12/2015		5	9 72	2	2	0	0	0	0	
9/13/2015		5	8 71	2	2	0	0	0	0	
9/14/2015		5	9 72	- 2	2	0	0	0	0	
9/15/2015		6	1 74	2	2	0	0	0	0	
9/16/2015		6	2 75		2	0	0	0	0	
9/17/2015		6	3 76	2	2	0	0	0	0	
9/18/2015		6	2 75		2	0	0	0	0	
9/19/2015		5	8 71	2	2	0	0	0	0	
9/20/2015		5	7 70	2	2	0	0	0	0	
9/21/2015		5	8 71		2	0	0	0	0	
9/22/2015		6	0 73	2	2	0	0	0	0	
9/23/2015		6	0 73	4	2	0	0	0	0	
9/24/2015		6	0 73	2	2	0	0	0	0	
9/25/2015		6	0 73	2	2	0	0	0	0	
9/26/2015		6	0 73	2	2	0	0	0	0	
9/27/2015		6	0 73		2	0	0	0	0	
9/28/2015		6	0 73	2	2	0	0	0	0	
9/29/2015		6	0 73		2	0	0	0	0	
9/30/2015		6	0 73	2	2	0	0	0	0	
10/1/2015			0 0	()	0	0	0	0	

60

KCC WICHITA APR 0.7 2016 RECEIVED

0