KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

1

	en Flow	•	ISI			(Test Date		ctions on Re	everse Side	.,	No. 15			
Deli	iverabili	y				7/9/201	5	_			23-20566 ~	-0000		
Company Rosewoo		our	ces					Lease Isernha	agen			1-27	Well Nu	mber
County Location Cheyenne SWSW					-	Section 27		TWP 3S				Acres Attributed 80		
Field St. Francis						Reservoir Niobrara					ering Conne Systems In			
Completion Date 9/10/2004						Plug Bac 1589'	k Total Dep	oth		Packer S	et at		-	
Casing Size Weight 4 1/2" 10.5#					Internal I 4.05 2	Diameter	Set 163		Perfor 137 8		то 1416'			
Tubing Siz			Weigl	nt		Internal D	Diameter	Set	at	Perfor		То		
Type Com Single (0	Conve	ntic	onal)			Dry Ga				Pumpii)/ No	
Annulus	· ·	Annı	ulus / Tubin	g) 		% C	arbon Diox			% Nitroge	en	.6	ravity - 0	· · · · · · · · · · · · · · · · · · ·
Vertical De 1416'							Flar					2"	Run) (Pi	rover) Size
Pressure E	Buildup:	S	hut in)	20	20 15 at 11:05 (PM) Ta				·10	20	15 at 11:15	<u> </u>	AM)(PM)
Well on Li	ne:	s	tarted 7-1	0	20	15 at 1	1:15				15 _{at} 1:05	(AM)(PM)	
						•	OBSERVI	ED SURFAC	E DATA			Duration of Shut-	in 24	Hours
Static / Dynamic Property	ic Size Meter Differential Prover Pressure in			Differential	Flowing Temperature t	Well Head Temperature t	Wellhead (P _w) or (F	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		ubing d Pressure (P _t) or (P _c) psia	Duration (Hours)		d Produced Barrels)	
Shut-In	_	poig (r my minios 11 ₂ 0		2		173	187.4	psig	рыа					
Flow	Flow					53	67.4			24	0			
				1			FLOW ST	REAM ATTE	RIBUTES	-				
$ \begin{array}{c cccc} Plate & \textit{Circle one:} & \textit{Press} \\ \textbf{Coefficient} & \textit{Meter or} & \textbf{Extension} \\ (\textbf{F}_b) (\textbf{F}_p) & \textit{Prover Pressure} \\ \textbf{Mcfd} & psia & & & & & \\ \hline \end{array} $			Extension	Gravity Factor F _g		Flowing Temperature Factor F _{rt}	Fa	iation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m		
											6			
	1			•		(OPEN FLO	OW) (DELIV	/ERABILITY) CALCUL	ATIONS		—(P.)	² = 0.2	 07
(P _c) ² =		:	(P _w) ² =		<u></u> :	P₀≃		% (1	P _c - 14.4) +	14.4 =	:	(P _o)		
$ \begin{array}{c c} (P_c)^2 - (P_a)^2 & (P_c)^2 - (P_w)^2 & 1. \ P_c^2 - P_a^2 \\ \text{or} & 2. \ P_c^2 - P_d^2 \\ \end{array} $ $ \begin{array}{c c} (P_c)^2 - (P_d)^2 & \text{divided by: } P_c^2 - P_w \end{array} $			P _c ² -P _e ² P _c ² -P _d ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slo As	Backpressure Curve Slope = "n" or Assigned Standard Slope		og 📗	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)		
Open Flow	<u></u> _			N	fcfd @ 14.6	55 psia		Deliverat	oility	ı	3	Mcfd @ 14.65 ps	ia	J
The ur	ndersig	ned	authority, o	n bel	nalf of the	Company, s	tates that i	ne is duly a	uthorized to	o make the	above repo	rt and that he ha	as knowl	edge of
he facts sta	ated the	rein	, and that s	aid re	port is true	and correct	t. Executed	this the 1	8	day of <u>D€</u>	ecember	A A n = 1	, 2	20 15 .
			Witness (if anv)	•	K	CC W	CHIR		and	W For C	TVI CUT	TU	<u>/</u>
			For Comm				APR_07	2016	a		Chec	ked 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 Isernhagen 1-27 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.
NCC WICHITA Signature: Cannel Montage APR 07 2016 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.

W351 Isernhagen 01-27

St. Francis St. Francis None July-15

	Tubing	Casing						HRS	Water		REMARKS	
DATE	PS1	PS1	STATIC	MCF	SPM	CY	CLE	DOWN	BBLS	_(M	aximum length 110	characters)
7/1/2015	-	53	67		6	0	0	(0	0		
7/2/2015		53	66		6	0	0		0	0		
7/3/2015		53	66		6	0	0	1	0	0		
7/4/2015		53	66		6	0	0	I	0	0		
7/5/2015		53	66		6	0	0	1	0	0		
7/6/2015		51	73		7	0	0		2	0		
7/7/2015		51	65		6	0	0	1	0	0		
7/8/2015		51	65		6	0	0	1	6	0		
7/9/2015		71	172		3	0	0	2	4	0		
7/10/2015		173	191		5	0	0	1	4	0		
7/11/2015		97	138		8	0	0		0	0		
7/12/2015		77	98		6	0	0		0	0		
7/13/2015		59	85		6	0	0		0	0		
7/14/2015		53	68		6	0	0		0	0		
7/15/2015		53	65		6	0	0		0	0		
7/16/2015		53	65		6	0	0		0	0		
7/17/2015		53	65		6	0	0		0	0		
7/18/2015		51	64		6	0	0	1	0	0		
7/19/2015		51	64		6	0	0	1	0	0		
7/20/2015		51	64		6	0	0	ı	0	0		
7/21/2015		52	74		6	0	0	1	2	0		
7/22/2015		50	64		6	0	C	1	0	0		
7/23/2015		50	64		6	0	C	1	0	0		
7/24/2015		51	64		6	0	C	1	0	0		
7/25/2015		50	63	;	6	0	C		0	0		
7/26/2015		50	63	,	6	0	C)	0	0		
7/27/2015		49			6	0	C)	0	0		
7/28/2015		49			6	0	0)	0	0		
7/29/2015		49	62	!	6	0	0)	0	0		
7/30/2015		49	62	!	6	0	0)	0	0		
7/31/2015		49	62	<u>!</u>	6	0	0)	0	0		

Total 185 0

KCC WICHITA APR 0.7 2016 RECEIVED W351 Işernhagen 01-27

St. Francis

St. Francis

None

August-15

	Tubing	Casing						RS	Water	REMARKS
DATE	P <u>S</u> I	PSI	STATI	C MCF	SPM	CYC	<u>LE</u> D	OWN	BBLS	(Maximum length 110 characters
8/1/2015			49	63	6	_0	0		0	
8/2/2015			50	64	6	0	0	0	0	
8/3/2015			51	65	6	0	0	0	0	
8/4/2015			49	63	6	0	0	0	0	
8/5/2015			49	62	6	0	0	0	0	
8/6/2015			49	63	6	0	0	0	0	
8/7/2015			49	63	6	0	0	0	0	
8/8/2015			49	65	6	0	0	0	0	
8/9/2015			49	67	6	0	0	0	0	
8/10/2015			49	69	6	0	0	0	0	
8/11/2015			49	70	6	0	0	0	0	
8/12/2015			49	70	6	0	0	0	0	
8/13/2015			49	70	6	0	0	0	0	
8/14/2015			49	71	6	0	0	0	0	
8/15/2015			49	71	5	0	0	0	0	
8/16/2015			49	72	5	0	0	0	0	
8/17/2015			49	70	5	0	0	0	0	
8/18/2015			49	70	5	0	0	0	0	
8/19/2015			49	71	5	0	0	0	0	
8/20/2015			49	70	5	0	0	0	0	
8/21/2015			49	70	5	0	0	0	0	
8/22/2015			49	71	5	0	0	0	0	
8/23/2015			49	71	5	0	0	0	0	
8/24/2015			59	71	5	0	0	0	0	
8/25/2015			59	71	5	0	0	0	0	
8/26/2015			59	70	6	0	0	0	0	
8/27/2015			59	69	5	0	0	0	0	
8/28/2015			59	68	5	0	0	0	0	
8/29/2015			59	71	5	0	0	0	0	
8/30/2015			59	73	5	0	0	4	0	
8/31/2015			59	76	5	0	0	0	0	

Total 170 0

KCC WICHITA APR 0.7 2016 RECEIVED

W351 Isemhagen 01-27;

St. Francis

St. Francis

None

September-15

_	Tubing	Casing			HR	S Water	REMARKS
DATE	PSI	_	STATIC MCF	SPM	CYCLE DO	WN BBL\$	(Maximum length 110 characters)
9/1/2015		53	66	5		0	
9/2/2015		53	66	5		0	
9/3/2015		53	66	5		0	
9/4/2015		55	68	5		0	
9/5/2015		57	70	5		0	
9/6/2015		57	70	5		0	
9/7/2015		57	70	5		0	
9/8/2015		57	70	5		0	
9/9/2015		57	70	5		0	
9/10/2015		57	70	5		0	
9/11/2015		57	70	5		0	
9/12/2015		57	70	5		0	
9/13/2015		57	70	5		0	
9/14/2015		57	70	5		0	
9/15/2015		57	70	5		0	
9/16/2015		57	70	5		0	
9/17/2015		57	70	5		0	
9/18/2015		57	70	5		0	
9/19/2015		57	70	5		0	
9/20/2015		57	70	5		0	
9/21/2015		57	70	5		0	
9/22/2015		57	70	5		0	
9/23/2015		57	70	5		0	
9/24/2015		57	70	5		0	
9/25/2015		57	70	5		0	
9/26/2015		57	70	5		0	
9/27/2015		57	70	5		0	
9/28/2015		57	70	5		0	
9/29/2015		57	70	5		0	
9/30/2015		57	70	5		0	
10/1/2015		-13				0	

150 0 Total

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