## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	CKI		(	See Instruc	tions on Re	verse Side	))						
Op	en Flow	ADT		Test Date				ΛDI	No. 15					
De	liverabilty			7/24/20					023-20590	-0000				
Company		urces				Lease Isernha	gen				2-22	Well Nu	mber	
•			Section 22				RNG (E/W) 41W				Acres A	ttributed		
Field St. Franc	cis			Reservoi Niobrara					hering Conn Systems In					
Completion 9/10/200				Plug Bac 1400'	k Total Dept	th		Packer S	et at				_	
Casing Size Weight II			Internal Diameter 4.052		Set at 1411'		Perforations 1261'			то <b>1297'</b>				
Tubing Si	ize	Weig	ıht	Internal I	Internal Diameter Set at			Perforations			То			
Type Con Single (				Type Flui Dry Ga	d Production	n			it or Traveling	Plunger	? (Yes	<b>)</b> / No		
	Thru (A	nnulus / Tubii	ng)		Carbon Dioxi	de		% Nitrog			Gas Gr	avity - G	ag g	
Vertical D					Pres	sure Taps						Run) (Pr	over) Size	
1297'					Flan	•					2"	, , ,	,	
Pressure	Buildup:			20 13 at 1	1:15	(AM) (PM)	Taken_7-	24	20			(	AM) (PM)	
Well on L	ine:	Started 7-2	24 2	0 <u>13</u> at <u>1</u>	1:25	(PM)	Taken 7-	25	20	13 at _	1:15	(	AM)(PM)	
					OBSERVE	D SURFACI	E DATA			Duration	of Shut-	in _24	Hours	
Static / Dynamic Property	Dynamic Size Meter Diffe		Differential	Flowing Temperature t	Temperature Temperature		Wellhead Pressure Wellhe		ubing ad Pressure (P,) or (P <sub>c</sub> )	Dura	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	(inches)	psig (Pm	) Inches H <sub>2</sub> 0			psig 159	psia 173.4	psig	psia			<u> </u>		
Flow						55	69.4			24		0		
			- I		FLOW STR	REAM ATTR	IBUTES	l.						
Plate Coeffieci (F <sub>b</sub> ) (F	ient <sub>P</sub> ) P	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fac F <sub>s</sub>	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	iation ctor :	Metered Flow R (Mcfd)		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
									2					
(P <sub>c</sub> ) <sup>2</sup> =		(P )2		(OPEN FL	OW) (DELIV	•	) CALCUL 2 - 14.4) +				(P <sub>a</sub> ): (P <sub>d</sub> ):	<sup>2</sup> = 0.20	07	
(P <sub>c</sub> ) <sup>2</sup> - (F	ľ	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	LOG of formula 1. or 2. and divide	P <sub>o</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpres Slop  Ass	ssure Curve De = "n" Or Signed ard Slope	nxt	og	Antil		Op Deli Equals	en Flow verability R x Antilog Mcfd)	
Open Flov	N		Mcfd @ 14.	65 psia	ć	Deliverab	ility			Mcfd @ 1	4.65 psi	a		
	_	_	on behalf of the	and correc	t. Executed	REGENNED 21	1 ,		e above repo ovember	rt and tha	at he ha	. 2	20 13	
				KA	NSAS CORP	ORATION CO	MMISSION	200	null	N	1/01	ti	nex	
		Witness				2 6 20 -	13 /		For C	Company				
		For Com	mission		CONSER W	IVATION DIVI ICHITA, KS	SION		Chec	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 Isernhagen 2-22 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:
RECEIVED COMMISSIONATURE: JUNUAL Mattury  DEC 2 6 2013  Title: Production Assistant  CONSERVATION DIVISION WICHITA. KS

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.

W352

Isernhagen 02-22

St. Francis

St. Francis

None

August-13

	Casing		H	RS	REMARKS
DATE		STATIC MCF	D	OWN	(Maximum length 110 characters)
8/1/2013	77	90	3		
8/2/2013	76	89	2		
8/3/2013	74	87	2		
8/4/2013	72	85	2		
8/5/2013	63	76	2		
8/6/2013	52	65	2		
8/7/2013	48	61	2		
8/8/2013	52	65	2		
8/9/2013	56	69	2		
8/10/2013	52	65	2		
8/11/2013	51	64	2		
8/12/2013	52	65	2		
8/13/2013	50	63	2		
8/14/2013	51	64	2		
8/15/2013	51	64	2	0.5	
8/16/2013	63	76	3		
8/17/2013	62	75	2		
8/18/2013	62	75	2		
8/19/2013	63	76	2	1.5	
8/20/2013	75	88	2	1	
8/21/2013	85	98	2		
8/22/2013	88	101	2	5	
8/23/2013	72	85	3		
8/24/2013	79	92	2	1	
8/25/2013	86	99	2	1	
8/26/2013	64	77	2		
8/27/2013	49	62	3		
8/28/2013	47	60	2		
8/29/2013	77	90	2	1	
8/30/2013	84	97	2		
8/31/2013	_ 85	98	2		

66

Total

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W352 Isernhagen 02-22 St. Francis

None

July-13

St. Francis

	Casing		HRS		REMARKS
DATE	PSI	STATIC MCF	DOW	'N	(Maximum length 110 characters)
7/1/2013	51	64	2		
7/2/2013	51	64	2		
7/3/2013	54	67	2		
7/4/2013	54	67	2		
7/5/2013	54	67	2		
7/6/2013	55	68	2		
7/7/2013	66	<b>7</b> 9	2		
7/8/2013	65	78	2		
7/9/2013	65	78	2		
7/10/2013	56	69	2		
7/11/2013	58	71	2		
7/12/2013	64	<b>77</b> ·	2		
7/13/2013	73	86	2	2.5	
7/14/2013	75	88	1		
7/15/2013	55	68	2		
7/16/2013	54	67	2		
7/17/2013	53	66	2		
7/18/2013	63	76	2		
7/19/2013	69	82	2		
7/20/2013	72	85	1		
7/21/2013	74	87	2	•	
7/22/2013	71	84	1		
7/23/2013	67	75	2		si for state test - cp 67
7/24/2013	159	83	0	24	reopened - cp 159
7/25/2013	77		5		
7/26/2013	59		3		
7/27/2013	53		3		
7/28/2013	55		2		
7/29/2013	55		2		
7/30/2013	53	66	2	3.5	
7/31/2013	84	97	3	5.5	

Total 63

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W352

Isernhagen 02-22

St. Francis

St. Francis

None

September-13

	Casing			HR		REMARKS
DATE	PSI	STATIC	MCF		)WN	(Maximum length 110 characters)
9/1/2013	105	118		2	1	
9/2/2013	91	104		2		
9/3/2013	91	104		2	22	
9/4/2013	175	188		0	10	
9/5/2013	110	123		4		
9/6/2013	86	99		3	1	
9/7/2013	78	91		2		
9/8/2013	90	103		2		
9/9/2013	99	112		2		
9/10/2013	101	114		2	2	
9/11/2013	124	137		2		
9/12/2013	175	187		1	18	
9/13/2013	105	118		2	4	
9/14/2013	77	90		2	2	
9/15/2013	84	97		2		
9/16/2013	61	74		2		
9/17/2013	52	65		2		
9/18/2013	51	64		2		
9/19/2013	45	58		2		
9/20/2013	45	58		2		
9/21/2013	61	74		2		
9/22/2013	69	82		2		
9/23/2013	59	72		2		
9/24/2013	52	65		2	4	
9/25/2013	84	97		2		
9/26/2013	72	85		2		
9/27/2013	49	62		2		
9/28/2013	52	65		2		
9/29/2013	53	66		2		
9/30/2013	56	69		2		
10/1/2013						

Total 60

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