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

Type Tes	t:		-10M		(	See Instruc	tions on Re	verse Side	<del>)</del> )						
Open Flow					Test Date	Test Date:				API No. 15					
De	liverat	ilty			6/22/14					023-20662 -	0000				
Company Rosewo		sou	rces				Lease Isernha	igen	_	<del>-</del>	22-25	Well Number			
				Section 25					/W)		Acres Attributed 80				
					Reservoir Niobrara				thering Conn Systems In						
Completi 3/10/200		е			Plug Bac 1463'	k Total Dep	th		Packer \$	Set at					
			Internal D 4.052	Internal Diameter Set at 4.052 1464'			Perfo	orations O'	To 1316'						
Tubing S	Tubing Size Weight				Internal [	Internal Diameter Set at				orations	То				
Type Con Single (					Type Flui Dry Ga	d Production	n			nit or Traveling ing Unit	Plunger? (es	)/ No			
Producing	-	(Anr	nulus / Tubin	g)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gr .6	avity - G <sub>g</sub>			
Vertical D	epth(F	()				Pres Flan	sure Taps ge		*		(Meter 2"	Run) (Prover) Size			
Pressure	Buildu	p; :	Shut in 6-7	2	0 14 at 9	:25	(AM) (PM)	Taken 6-	19	20	14 <sub>at</sub> 9:40	(AM) (PM)			
Well on L				22	0 14 at 9	:40					14 at 10:25	(AM)(PM)			
				- <del>-</del> -		OBSERVE	D SURFAC		<del>_</del> _		Duration of Shut-	in 360 Hours			
Static / Dynamic Property	Static / Orifice   Meter   D		I	Flowing Well Head Temperature t t t		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Duration (Hours)	Liquid Produced (Barrels)				
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0	<u> </u>	<u> </u>	226	240.4	psig	psia		<del>   </del>			
Flow							55	69.4			360	0			
	<u>_</u>					FLOW STF	EAM ATTE	BUTES				<del></del>			
Coeffied (F <sub>b</sub> ) (F	Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fact F <sub>s</sub>	tor	Flowing femperature Factor F <sub>ff</sub>	Fa	iation Metered Flor ctor R (Mcfd)		y GOR (Cubic Fe Barrel)	Gravity 1			
			_				-		_	29					
					(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS			p <sup>2</sup> = 0.207			
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		% (1	P <sub>o</sub> - 14.4) +	14.4 =	:	(P <sub>d</sub> )				
(P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>g</sub> ) <sup>2</sup>	(F	P <sub>s</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose farmula 1 or 2  1. P <sub>a</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>a</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slo As	essure Curve pe ≈ "n" - or~ signed lard Slope	l n x	rod	Antilog	Open Flow Deliverability Equals R x Antilog ( (Mcfd)			
								<u>-</u>							
Open Flo	w		<del></del>	Mcfd @ 14.	65 psia		<u>Deliveral</u>	oility			Mcfd @ 14.65 ps	ia			
		•	••				•				rt and that he ha	_			
the facts s	tated t	herei	n, and that s	aid report is true		Rece	eived		day of $\frac{\mathbb{L}}{2}$	ecember	1 1/08	, 20 14			
		_	Witness (	(any)	- NAME	EED 2		Nicht C	11920	For	Sompany Company	muez_			
			For Comm	nission		FED 2	5 2015			Che	cked by	<u> </u>			

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
	poing 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 insta	allation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby requ	est a one-year exemption from open flow testing for the <u>Isernhagen 22-25</u>
	ounds that said well:
(0)	
(Check	is a coalbed methane producer
片	is cycled on plunger lift due to water
	is a source of natural gas for injection into an oil reservoir undergoing ER
H	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
<u>v</u>	is not capable of producing at a daily rate in excess of 250 mond
I further agree	to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	to corroborate this claim for exemption from testing.
Date: 12/12/14	
	<del></del>
	Received MINISSION (1900)
	Received Signature: Januar Mortagey
	FEB 2 5 2015 Title: Production Assistant
	CONSERVATION DIVISION
	* Minus

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.

W369

Isernhagen 22-25

St. Francis

St. Francis

None

June-1**34** 

	Casing				HRS	REMARKS
DATE	PSI	STATIC	<u>MC</u> F		DOWN_	(Maximum length 110 characters)
6/1/20134	62	75		28	0	
6/2/2013	66	79		27	0	
6/3/201	64	77		26	0	turn on pumping unit
6/4/2013	78	91		26	0	
6/5/2013	58	71		28	0	
6/6/2013	59	72		29		turn off pumping unit
6/7/201	171	184		27	9	
6/8/2013	187	200		18	24	
6/9/2013	190	203		0	24	
6/10/2013	195	208		0	24	
6/11/201	196	209		0	24	
6/12/2013	201	214		0	24	
6/13/2018	228	241		0	24	
6/14/2013	229	242		0	24	
6/15/2013	229	242		0	24	
6/16/2013	230	243		0	24	
6/17/2011	230	243		0	24	
6/18/2013	231	244		0	24	
6/19/2013	226	239		0	24	
6/20/201	226	239		0	24	
6/21/2018	226	239		0	24	
6/22/2018	226	239		0	24	
6/23/2013	132	145		36	5	
6/24/2013	120	133		47	0	
6/25/2013	110	123		39	0	
6/26/2013	97	110		33	0	
6/27/2013	88	101		30	0	
6/28/2013	73	86		29	0	
6/29/2013	71	84		27	0	started pumping unit
6/30/201 <b>3</b>	64	77		28	0	
7/1/2013					0	

478

Total

Received
KANSAS CORPORATION COMMISSION

FEB 2 5 2015

W369 Isernhagen 22-25 St. Francis St. Francis None July-14

	Casing		H	RS	Water	REMARKS
DATE	PSI	STATIC MO	F DO	NWC	BBLS	(Maximum length 110 characters)
7/1/2014	63	76	29	0	16	
7/2/2014	63	76	29	0	17	
7/3/2014	63	76	29	0	16	
7/4/2014	63	76	29	0	17	
7/5/2014	64	. 77	29	0	18	
7/6/2014	64	77	29	0	18	
7/7/2014	79	92	29	0	17	
7/8/2014	65	78	29	0	16	
7/9/2014	66	79	29	0	17	
7/10/2014	66	79	29	0	18	
7/11/2014	68	81	29	0	17	
7/12/2014	69	82	28	0	17	
7/13/2014	70	83	27	0	16	
7/14/2014	79	92	28	0	18	5 min bt
7/15/2014	60	73	29	0	16	
7/16/2014	60	73	29	0	18	
7/17/2014	56	69	29	0	17	
7/18/2014	55	68	29	0	16	
7/19/2014	55	68	29	0	17	
7/20/2014	56	69	29	0	18	
7/21/2014	110	123	29	0	17	
7/22/2014	176	189	5	22	16	
7/23/2014	84	. 97	29	7	17	
7/24/2014	62	75	29	3	10	
7/25/2014	65	78	28	4	0	started pumping unit
7/26/2014	52	65	26	0	12	
7/27/2014	53	66	27	0	18	
7/28/2014	55	68	28	0	16	
7/29/2014	57	70	28	0	17	
7/30/2014	54	67	28	0	18	
7/31/2014	56	69	28	0	17	

Total 861 498

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FEB 2 5 2015

W369 Isernhagen 22-25 St. Francis St. Francis None August-14

Total

	Casing						HRS		Water	REMARKS
DATE	PSI	STATIC	MCF	SPM		CYCLE	DOWN		BBLS	(Maximum length 110 characters
8/1/2014		55 68	3	28	6	12		0	17	
8/2/2014	5	55 68	3 :	28	6	12		0	17	
8/3/2014	5	5 68	3 :	28	6	12		0	17	
8/4/2014	5	64 67	7 :	28	6	12		0	17	
8/5/2014	5	5 68	3 2	28	6	12		0	17	
8/6/2014	5	5 68	3 :	28	6	12		0	17	
8/7/2014	5	66 69	) :	28	6	12		0	17	
8/8/2014	4	66 69	) :	28	6	12		0	17	
8/9/2014	6	50 73	3	28	6	12		0	17	
8/10/2014	5	8 7:	. :	28	6	12		0	17	
8/11/2014	5	57 70	) :	28	6	12		0	17	
8/12/2014	5	5 68	3 2	29	6	12		0	17	
8/13/2014	5	5 68	3 :	28	6	12		0	17	5 min BT
8/14/2014	5	63	7 :	29	6	12		0	17	
8/15/2014	•	50 73	3 :	28	6	12		3	17	
8/16/2014	5	9 72	2 2	28	6	12		0	17	
8/17/2014	5	9 72	2 :	28	6	12		0	17	
8/18/2014	•	50 73	3 :	29	6	12		0	17	
8/19/2014	6	54 7	7 :	28	6	12		2	17	
8/20/2014	•	i4 77	7 2	28	6	12		0	17	
8/21/2014	5	8 7		29	6	12		0	17	
8/22/2014	5	59 72	2 :	29	6	12		0	17	
8/23/2014	5	4 67	7 2	29	6	12		0	17	
8/24/2014	5	5 68	3	29	6	12		0	17	
8/25/2014	7	0 83	3	29	6	12		0	17	
8/26/2014	5	66 69	) :	29	6	12		0	17	
8/27/2014	5	i9 72	2 2	29	6			0		
8/28/2014	•	67 80	) :	29	6	12		0	8.5	
8/29/2014	5	4 6	7 :	26	6	12		5	8.5	
8/30/2014	5	63	7 :	29	6	12		0	17	
8/31/2014	6	57 80	) :	29	6	12		0	17	

879

Received Kansas Corporation Commission

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FEB 2 5 2015