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

Type Tes	st:	CHET		(	See Instruc	tions on Rev	erse Side	<del>)</del> )					
	pen Flow eliverabilty	XDL		Test Date 6/12/20					I No. 15 -023-20662 -	- 0000			
Company	y ood Reso	ources		0/12/20	13	Lease Isernhag	jen		-020-20002-	22-25	Well Nu	mber	
•					Section TWP 25 3S				E/W)		Acres Attributed 80		
Field					Reservoir Niobrara				41W 80  Gas Gathering Connection Branch Systems Inc.				
Completi 3/10/200				Plug Bac 1463'	k Total Depi	th		Packer	Set at				
Casing S 4 1/2"	3				Internal Diameter Set at 4.052 1464'				orations 80'	то 1316	то 1316'		
Tubing S	Size	Weigh	nt	Internal I	Diameter	Set a	<u> </u>	Perfo	orations	То			
	mpletion (	Describe) ntional)		Type Flui Dry Ga	d Production	า			nit or Traveling	Plunger? (es	No No		
Producing	•	nnulus / Tubin	g)	% C	arbon Dioxi	de		% Nitro	gen	Gas G	iravity - G	i <sub>g</sub>	
Vertical E						sure Taps				•	Run) (Pr	over) Size	
1316'					Flan	<del>_</del>		<u> </u>		2"			
Pressure	Buildup:	Shut in 6-1	12	<sub>0</sub> 13 <sub>at</sub> 9		(PM)	Taken_6-	12		13 <sub>at</sub> 9:40	•	AM) (PM)	
Well on L	_ine:	Started 6-1	2 2	0 <u>13</u> at <u>9</u>	13 at 9:40 (AM)(PM) Taken 6-				20	13 <sub>at</sub> 10:25	(	AM))PM)	
				-	OBSERVE	D SURFACE	DATA			Duration of Shu	t-in 24	Hou	
Static / Dynamic Property	namic Size Meter Differential Prover Pressure in		Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)		i Produced Barrels)		
Shut-In		psig (Pm)	Inches H <sub>2</sub> 0			130	psia 144.4	psig	psia				
Flow						55	69.4			24	0		
	1.				FLOW STR	EAM ATTRI	BUTES						
Coefficient Me		Circle one:  Meter or over Pressure psia  Press Extension  ✓ P <sub>m</sub> x h		Grav Fact	tor T	emperature Factor		iation Metered Flow ctor R F (Mcfd)		y GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G <sub>m</sub>	
									30				
/D \2		/D \2		,		ERABILITY)					) <sup>2</sup> = 0.20	)7	
(P <sub>c</sub> ) <sup>2</sup> = (P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	$\frac{(P_w)^2 =}{(P_c)^2 - (P_w)^2}$	Choose formula 1 or 2:	P <sub>d</sub> =		Backpres	- 14.4) + sure Curve e = "n"	n x	: LOG [ ]	(P <sub>d</sub>		en Flow verability	
(P <sub>e</sub> ) <sup>2</sup> - (I	P <sub>d</sub> ) <sup>2</sup>		2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Assi	gned rd Slope			<b>-</b>		R x Antilog Mcfd)	
Open Flor	w		Mcfd @ 14.0	65 psia	<del></del>	Deliverabil	ity			Mcfd @ 14.65 ps	sia		
The u	undersign	ed authority, or	n behalf of the	Company, s	tates that h	e is duly aut	horized to	make t	he above repo lovember	rt and that he h	as knowl	edge of	
ie iacis si	ialed (ner	em, and that sa	aid report is true	and correct					unu	Mar	FINU	<u> </u>	
		Witness (i	f any)		_	2 6 201	1		For C	Company	W		
		For Comm	ission			VATION DIVIS	NON:	_	Chec	cked by			

exempt status under land that the foregoin correct to the best of of equipment installat	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  In pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records a tion and/or upon type of completion or upon use being made of the gas well herein named.  Is a one-year exemption from open flow testing for the Isernhagen 22-25 and that said well:
is i	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER con vacuum at the present time; KCC approval Docket No control capable of producing at a daily rate in excess of 250 mcf/D  o supply to the best of my ability any and all supporting documents deemed by Commission of corroborate this claim for exemption from testing.
Date: 11/21/13	
K	RECEIVED KANSAS CORPORATION COMMISSION  DEC 2 6 2019 ignature:  CONSERVATION DIVISION Title:  Production Assistant 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.

W369 Isernhagen 22-25 St. Francis St. Francis None June-13

Total

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	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
6/1/2013	49	62	29	6	7		9	
6/2/2013	53	66	29	6	7		10	
6/3/2013	51	64	30	6	7		11	
6/4/2013	50	63	30	6	7		9	
6/5/2013	63	76	30	6	7		10	5 min bt
6/6/2013	67	80	30	6	7		10	
6/7/2013	54	67	31	6	7		9	
6/8/2013	54	67	31	6	7		10	
6/9/2013	56	69	31	6	7		11	
6/10/2013	57	70	31	6	7	2	8	
6/11/2013	78	91	31	6	3	1	5	pu off hfp si for state test - cp 87
6/12/2013	73	86	0	6	0	24	0	reopened - cp 130
6/13/2013	57	70	38	6	3		5	restart pu
6/14/2013	61	74	33	6	7		11	-
6/15/2013	62	75	32	6	7		12	
6/16/2013	63	76	32	6	7		11	
6/17/2013	59	72	32	6	3		5	pu off
6/18/2013	52	65	30	6			0	•
6/19/2013	46	59	29	6	3		5	restart pu
6/20/2013	51	64	29	6	7		12	-
6/21/2013	67	80	30	6	7		9	5.75 min bt greased
6/22/2013	78	91	31	6	7		10	· ·
6/23/2013	82	95	31	6	3		5	pu off hfp
6/24/2013	78	91	30	6	0		0	calibrated meter
6/25/2013	81	94	28	6	0		0	
6/26/2013	80	93	27	6	0		0	
6/27/2013	72	85	27	6	7		5	restart pu
6/28/2013	67	79	28	6	7		10	-
6/29/2013	55	68	29	6	7		9	
6/30/2013	54	67	30	6	7		8	
7/1/2013								

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CONSERVATION DIVISION WICHITA, KS

W369 Isernhagen 22-25 St. Francis St. Francis None July-13

Total

	Casing					HRS	Water	REMARKS
DATE	PSI	STATION	ИCF	SPM	CYCLI	DOWN	BBLS	(Maximum length 110 characters)
7/1/2013	55	68	30	6	7		9	
7/2/2013	55	68	31	6	7		9	
7/3/2013	55	68	31	6	7		8	
7/4/2013	56	69	31	6	7		10	
7/5/2013	55	68	31	6	7		9	treated well
7/6/2013	58	71	31	6	7		7	
7/7/2013	70	83	31	6	7		8	
7/8/2013	68	81	31	6	7		10	5.25 min bt
7/9/2013	68	81	31	6	7		11	
7/10/2013	60	73	32	6	7		8	
7/11/2013	62	75	32	6	7		9	
7/12/2013	69	82	32	6	4		6	shut pumping unit off hfp
7/13/2013	76	89	30	6	0	2.5	0	
7/14/2013	78	91	28	6	0		0	
7/15/2013	58	71	27	6	4		5	started pu
7/16/2013	57	70	28	6	7		10	5.25 min bt greased
7/17/2013	53	66	29	6	7		11	-
7/18/2013	80	93	29	6	4		5	pu off hfp
7/19/2013	72	85	29	6	0		0	
7/20/2013	74	87	27	6	0		0	
7/21/2013	76	89	26	6	0		0	
7/22/2013	73	86	25	6	0		0	
7/23/2013	64	77	25	6	4		5	restart pu
7/24/2013	73	86	26	6	7		11	_
7/25/2013	79	92	28	6	4		5	pu off hfp
7/26/2013	61	74	27	6	4		5	restart pu
7/27/2013	57	70	27	6	7		11	-
7/28/2013	58	71	28	6	7		12	
7/29/2013	57	70	29	6	7		10	
7/30/2013	57	70	29	6	4	3.5	5	pu off hfp
7/31/2013	87	100	24	6	0	5.5	0	· .

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CONSERVATION DIVISION WICHITA, KS

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

August-13

Total

	Casing				]	HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
8/1/2013	78	91	28	6		_		<del>-</del>
8/2/2013	78	91	26	6				
8/3/2013	77	90	26	6				
8/4/2013	74	87	24	6				
8/5/2013	67	80	24	6				
8/6/2013	55	68	24	6	2		5	restart pu
8/7/2013	51	64	24	6	4		10	
8/8/2013	55	68	26	6	4		11	
8/9/2013	59	72	27	6	4		10	
8/10/2013	56	69	27		4		11	
8/11/2013	54	67	28	6	4		12	
8/12/2013	55	68	28	6	4		10	
8/13/2013	54	67	28	6	4		5	5.25 min bt greased
8/14/2013	55	68	28	6	4		6	
8/15/2013	55	68	29	6	4	0.5	4	
8/16/2013	66	79	29	6	4		7	
8/17/2013	66	79	29	6	4		8	
8/18/2013	66	79	29	6	4		9	
8/19/2013	67	80	29	6	2	1.5	3	
8/20/2013	78	91	28	6	0	1	0	
8/21/2013	87	100	26	6	0		0	
8/22/2013	90	103	24	6	0	5	0	
8/23/2013	74	87	25	6	0		0	
8/24/2013	83	96	24	6	0	1	0	
8/25/2013	89	102	23	6	0	1	0	
8/26/2013	55	68	23	6	2		3	started pumping unit
8/27/2013	52	65	24	6	4		5	
8/28/2013	51	64	25	6	4		7	
8/29/2013	79	92	30	6	2	1	3	pu off hfp
8/30/2013	86	99	25	6	0		0	
8/31/2013	86	99	24				0	

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CONSERVATION DIVISION WICHITA, KS