KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes		-1/T		(See Instruct	ions on Re	verse Side	ı)				
Op	en Flow	ØSL		Test Date				ΛD	l No. 15			
De	liverabili	ty		6/22/14	.				3-20608-00 0	o		
Company	/ od Res	ources, Inc.				Lease Isernha	gen			4-23	Well Number	
County Location : Cheyenne SWSE/4				Section 23				RNG (E 41W	/W)		Acres Attributed 80	
Field St. Fran	cis	•		Reservoi Niobrara					thering Conn Systems In			
Completion 5/27/200				Plug Bac 1449'	k Total Dept	h		Packer	Set at			
			Internal E 4.052	Diameter	Set a 144		Perfo 125	orations O'	™ 1282'			
Tubing S None	Tubing Size Weight				Internal Diameter Set at			Perfo	rations	То	То	
		(Describe) entional)		Type Flui Dry Ga	d Production	1			nit or Traveling ing Unit	Plunger? (Yes))/ No	
		Annulus / Tubii	ng)	% C	arbon Dioxi	de		% Nitrog	gen		avity - G	
Annulus Vertical D			 _		Pres	sure Taps				.6 (Meter)	Run) (Prover) Size	
1282'	opin(i i)				Flang	•				2"	1017 (1 10401) 0120	
Pressure	Buildup	Shut in 6-	72	0 14 at 8	:15	(PM)	Taken_6-	15		14 at 8:30	(AM) (PM)	
Well on L		Started 6-2	22 2	o <u>14</u> at <u>8</u>	:30	(AM)(PM)	Taken 6-	23	20	14 at 9:15	(AM)(PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shut-	in_360 Hours	
Static / Dynamic	Static / Orifice Meter Diffe		Differential	Flowing Temperature	Well Head Temperature	Cas Wellhead	Pressure	Wellhe	Tubing ead Pressure	Duration	Liquid Produced	
Property	(inches	Prover Press psig (Pm)	1	t	t	(P _w) or (F	psia	psig	r (P ₁) or (P _c)	(Hours)	(Barrels)	
Shut-In						159	173.4					
Flow						60	74.4			360	0	
					FLOW STR	EAM ATTR	IBUTES					
Plate Coeffied (F _b) (F Mofd	ient p)	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac F	tor T	Flowing emperature Factor F ₁ ,	Fa	iation ctor	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	Gravity	
									24			
				(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS			²= 0.207	
(P _c) ² =		; (P _w) ²	=:	P _d =		6 (F	⁹ 。- 14.4) +	14.4 =	:	(P _d)		
(P _o) ² - (l	1	(P _c)²- (P _w)²	1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formula 1, or 2, and divide	P _c ² - P _w ²	Slo	ssure Curve pe = "n" - cr signed	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
	_		divided by: $P_c^2 - P_w$	by:	<u> </u>	Stand	ard Slope				()	
								_				
Open Flo	w		Mcfd @ 14.	65 psia		Deliverat	ility			Mcfd @ 14.65 ps	ia	
	_	-				-				rt and that he ha		
the facts s	tated the	erein, and that s	said report is true					_	December	1010-4	20 14	
		Witness	(if any)	KA	Red NSAS CORPOR	ATION COMM	SSION	au	nul D	UUUUU Company	ur	
		***************************************				5 2 015						
		For Com	mission		*****	. J (,() -4			Che	cked by		

exempt status under and that the foregonet to the best of equipment insta	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. The set a one-year exemption from open flow testing for the Isernhagen 4-23 bounds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Received MAS CORPORATION COMMISSION FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS Title: Production Assistant

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.

W355
Isernhagen 04-23
St. Francis
St. Francis
None
June-134

	Casing				HRS	REMARKS
DATE	PSI	STATIC	MCF		DOWN	(Maximum length 110 characters)
6/1/20134	58	71		21	0	
6/2/2013	64	77		20	0	
6/3/2013	67	80		19		turn on pumping unit
6/4/2013	85	98		20	0	
6/5/201	55	68		20	0	
6/6/201	55	68		21		turn off pumping unit
6/7/2013	128	141		13	9	
6/8/2013	135	148		13	24	
6/9/2013	138	151		0	24	
6/10/201	143	156		0	24	
6/11/201	145			0	24	
6/12/2013	150	163		0	24	
6/13/2013	157	170		0	24	
6/14/2013	158	171		0	24	
6/15/2013	159	172		0	24	
6/16/2013	135	148		0	24	
6/17/2013	135	148		0	24	
6/18/2013	134	147		0	24	
6/19/2013	135	148		0	24	
6/20/2013	135	148		0	24	
6/21/2013	135	148		0	24	
6/22/2013	135	148		0	24	
6/23/2013	125	138		2	5	
. 6/24/2013	118	131		25	0	
6/25/201	109			35	0	
6/26/201	96			31	0	
6/27/2013	87	100		23	0	
6/28/2013	61	74		22		started pumping unit
6/29/2013	59			23	0	
6/30/2013	59	72		24	0	
7/1/2013					0	

Total 332

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W355 Isernhagen 04-23 St. Francis St. Francis None July-14

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2014	5	9 72	24				0	
7/2/2014	6	50 73	24				0	
7/3/2014	6	i0 73	24				0	
7/4/2014	6	i0 73	24				0	
7/5/2014	6	52 75	24				0	
7/6/2014	6	52 75	24				0	
7/7/2014	7	6 89					0	
7/8/2014	6	3 76					0	
7/9/2014	6	3 76	23				0	
7/10/2014	6	i4 77	23				0	
7/11/2014	ϵ	i4 77	23				0	
7/12/2014	6	6 79	23				0	
7/13/2014	6	7 80	23				0	
7/14/2014	7	['] 2 85	24				0	
7/15/2014	5	7 70	24				0	
7/16/2014	5	70					0	
7/17/2014	6	52 7 <i>5</i>		6	7	1	0 13	
7/18/2014	5	9 72		6			0 14	
7/19/2014		9 72		6			0 15	
7/20/2014	6	1 74		6		7	0 13	
7/21/2014		9 112		6			0 14	3.5 BT
7/22/2014	12	6 139		6		, 2		
7/23/2014		0 103		6			7 13	
7/24/2014	6	6 79	24	6	7	7	3 0	
7/25/2014	5	8 71	22	6	7	,	4 8	restarted PU
7/26/2014	5	66 69	22	6	7	,	0 14	,
7/27/2014	5	66 69	23	6	7	,	0 13	
7/28/2014	5	9 72		6	7		0 14	
7/29/2014		54 77		6			0 15	
7/30/2014		8 71		6			0 13	
7/31/2014		0 73		6	5		0 15	

Total 700 189

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W355

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Isernhagen 04-23

St. Francis

St. Francis

None

August-14

	Casing					HRS		Water	REMARKS
DATE	PSI	STA <u>TIC</u>	MCF	SPM	CYCLE	DOWN		BBLS	(Maximum length 110 characters)
8/1/2014	5	8 71	23	- 6		7	0	32	
8/2/2014	5	8 71	23	6		7	0	32	
8/3/2014	5	66 69	24	6	,	7	0	32	
8/4/2014	5	9 72	24	6	; 7	7	0	32	
8/5/2014	5	8 71	24	• 6	1	7	0	32	
8/6/2014	5	58 71	24	1 6		7	0	32	
8/7/2014	5	59 72	. 24	1 6		7	0	32	
8/8/2014	6	50 73	24	6	1	7	0	32	3.5 min BT
8/9/2014	6	51 74	. 24	· 6	;	7	0	32	
8/10/2014	6	52 75	25	6	;	7	0	32	
8/11/2014	5	59 72	. 24	. 6	;	7	0	32	
8/12/2014	5	6 69	24	1 6		7	0	32	
8/13/2014	5	57 70	24	+ 6		7	0	32	
8/14/2014	5	70	24	6	1	7	0	32	
8/15/2014	ϵ	54 77	22	· 6		7	3	32	
8/16/2014	ϵ	52 75	22	2 6		7	0	32	
8/17/2014	6	52 75	22	2 6	;	7	0	32	
8/18/2014	6	52 75	24	ϵ	;	7	0	32	
8/19/2014	ϵ	57 80	23	3 6	5	1	2	32	
8/20/2014	ϵ	57 80	23	6	,	7	0	32	
8/21/2014	ϵ	51 74	24	1 6		7	0	32	
8/22/2014	6	57 80	24	l 6	,	7	0	32	
8/23/2014	5	58 71	24	ι ϵ	;	7	0	32	
8/24/2014		50 73			,	7	0	32	
8/25/2014	7	74 87	24			7	0	32	
8/26/2014	6	50 73		· 6		7	0	32	
8/27/2014		53 76				7	0	32	
8/28/2014		51 74				7	0	16	
8/29/2014		70				7	5	16	
8/30/2014		70			, <i>'</i>	7	0	32	
8/31/2014		59 82			,	7	0	32	

Total 727 960

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