KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:	CCT		(See Instruc	tions on Rev	verse Side	∌)				
☐ Op	oen Flow	ASI		Tout Date				4 DI	No. 45			
De	eliverabilt	у		Test Date 7/24/20					No. 15 0 <mark>23-20566</mark> ·	- 0000		
Company		ources				Lease Isernhag	gen			1-27	Well Nun	nber
County Cheyeni	ne	Locat		Section 27		TWP 3S		RNG (E/	W)		Acres At 80	tributed
Field St. Fran	cis			Reservoi Niobrara					hering Conn Systems In			
Completi 9/10/200				Plug Bac 1589'	k Total Dep	th		Packer S	Set at			
Casing S 4 1/2"	lize	Weig 10.5		Internal I 4.052	Diameter	Set a 1632		Perfo	rations 8'	To 1416'	_	
Tubing S	ize	Weig	ht	Internal [Diameter	Set a	t	Perfo	rations	То		
Type Cor		(Describe)		Type Flui Dry Ga	d Production	n			nit or Traveling	Plunger? Yes	/ No	
	g Thru (/	Annulus / Tubir	ng)		arbon Dioxi	de	<u>-</u>	% Nitrog	<u> </u>		avity - G	
Vertical D					 Droc	sure Taps				.6	Bun) (Pro	ver) Size
1416'					Flan	•				2"		
Pressure	Buildup:			20 13 at 1		(PM)				13 at 11:15	(A	M)(PM)
Well on L	ine:	Started 7-2	242	0 <u>13</u> at <u>1</u>	1:15	(PM)	Taken 7-	25	20	13 _{at} 1:05	(A	M)(PM)
				-	OBSERVE	D SURFACE	DATA	T-		Duration of Shut-	_{in} 24	Hours
Static / Dynamic Property	Orifice Size (inches	Meter Prover Press		Flowing Temperature t	Well Head Temperature t	Casi Wellhead F (P _w) or (P _t	Pressure	Wellhe	Tubing ad Pressure · (P _t) or (P _c)	Duration (Hours)		Produced arreis)
Shut-In		psig (Pm)	Inches H ₂ 0			224	_{psia} 238.4	psig	psia			
Flow						53	67.4			24	0	
					FLOW STR	EAM ATTRI	BUTES		_			
Plate Coeffied (F _b) (F Mcfd	ient	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fact F _g	tor T	Flowing Femperature Factor F ₁₁	Fa	iation ctor - pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m
									6			
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a)	² = 0.20	7
(P _c) ² =		(P _w) ² =	::_	P _d =	9	% (P	<u>-</u> 14.4) +	14.4 =	<u>;</u>	(P _a);	2 =	
(P _c) ² - (F or (P _c) ² - (F		(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	Slop Ass	sure Curve e = "n" origned	nxl	.og]	Antilog	Delive Equals F	n Flow erability R x Antilog lofd)
			divided by: P _c ² -P _w	by:	<u> </u>	Standa	rd Slope	+			,,,,	
Open Flov	w '		Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 psi	a	
The u	undersign	ed authority, o	n behalf of the	Company, s	tates that h	e is duly aut	horized to	make th	e above repo	rt and that he ha	s knowle	dge of
the facts st	tated the	rein, and that s	aid report is true		RECEIV	this the 21 VED ION COMMISS		day of No	ovember	Mait	, 20 , 1	13
		Witness (if any)		DEC 2	_	7	w	For C	Company Company	wy	
		For Comn	nission	~	ONCEDIATIO		_		Chec	ked by		

CONSERVATION DIVISION WICHITA. KS

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.
RECEIVED KANSAS CORPORATION COMMISSIONSignature: DEC 2 6 2013 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.

W351 Isernhagen 01-27 St. Francis St. Francis None July-13

	Casing		<u>-</u>	HRS	Wate	er REMARKS
DATE	PSI	STATIC	MCF	SPM CYCLEDOV	VN BBL	S (Maximum length 110 characters)
7/1/2013	53	66	6			
7/2/2013	53	66	6			
7/3/2013	55	68	6			
7/4/2013	56	69	6			
7/5/2013	57	70	6			
7/6/2013	56	69	6			
7/7/2013	57	70	6			
7/8/2013	68	81	6			
7/9/2013	67	80	6			
7/10/2013	66	79	6			
7/11/2013	58	71	7			
7/12/2013	59	72	6			
7/13/2013	75	88	7		2.5	
7/14/2013	77	90	6			
7/15/2013	57	70	7			
7/16/2013	56	69	6			
7/17/2013	54	67	7			
7/18/2013	65	78	7			
7/19/2013	71	84	6			
7/20/2013	73	86	6			
7/21/2013	75	88	. 6			
7/22/2013	73	86	6			
7/23/2013	67	77	7			si for state test - cp 67
7/24/2013	224	83	0		24	reopened - cp 224
7/25/2013	78	91	10			
7/26/2013	62	75	7			
7/27/2013	56	69	7			
7/28/2013	57	70	6			
7/29/2013	55	68	6			
7/30/2013	55	68	6	:	3.5	
7/31/2013	85	98	7	:	5.5	

Total 193 0

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W351 Isernhagen 01-27 St. Francis St. Francis None August-13

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN ·	(Maximum length 110 characters)
8/1/2013	79	92	8	_	
8/2/2013	77	90	6		
8/3/2013	76	89	6		
8/4/2013	73	86	6		
8/5/2013	68	81	6		
8/6/2013	54	67	7		
8/7/2013	50	63	6		
8/8/2013	54	67	6		
8/9/2013	58	71	6		
8/10/2013	55	68	6		
8/11/2013	53	66	6		
8/12/2013	53	66	6		
8/13/2013	52	65	6		
8/14/2013	53	66	6		
8/15/2013	53	66	6	0.5	
8/16/2013	65	78	6		
8/17/2013	63	76	6		
8/18/2013	63	76	6		
8/19/2013	64	77	6	1.5	
8/20/2013	77	90	7	1	
8/21/2013	87	100	6		
8/22/2013	90	103	6	5	
8/23/2013	73	86	7		
8/24/2013	80	93	6	1	
8/25/2013	87	100	6	1	
8/26/2013	73	86	6		
8/27/2013	50	63	7		
8/28/2013	49	62	6		
8/29/2013	79	92	6	1	
8/30/2013	85	98	6		
8/31/2013	86	99	6		

Total 192

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W351 Isernhagen 01-27 St. Francis St. Francis None September-13

	Casing		HR	RS T	REMARKS
DATE	PSI S	STATIC MCF	DC)WN	(Maximum length 110 characters)
9/1/2013	109	122	5	1	
9/2/2013	92	105	6		
9/3/2013	92	105	6	22	
9/4/2013	176	189	3	10	
9/5/2013	111	124	9		
9/6/2013	87	100	7	1	
9/7/2013	90	103	5		
9/8/2013	91	104	6		
9/9/2013	100	113	6		
9/10/2013	104	117	6	2	
9/11/2013	127	140	6		
9/12/2013	175	188	4	18	
9/13/2013	109	122	6	4	
9/14/2013	83	96	6	2	
9/15/2013	90	103	5		
9/16/2013	63	76	7		
9/17/2013	53	66	7		
9/18/2013	54	67	6		
9/19/2013	46	59	7		
9/20/2013	47	60	6		
9/21/2013	62	75	5		
9/22/2013	70	83	5		
9/23/2013	61	74	6		
9/24/2013	54	67	7	4	
9/25/2013	86	99	7		
9/26/2013	73	86	7		
9/27/2013	50	63	7		
9/28/2013	53	66	6		
9/29/2013	55	68	6		
9/30/2013	58	71	6		
10/1/2013					

Total 181

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