KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	_	-		(See Instruc	tions on Re	verse Side))				
Op	en Flo	w 🏻	ASI		T D	_			A DI	Na 15			
	liverat				Test Date 6/15/20					No. 15 023-20564 -	OO-00		
Company		esoui	rces			· · · · · · · · · · · · · · · · · · ·	Lease Isemha	gen			1-23	Well N	umber
County Location Cheyenne SWSW					Section 23		TWP 3S		RNG (E	W)		Acres 80	Attributed
Field St. Francis					Reservoir Niobrara					hering Conne Systems Inc		 -	
Completion Date 9/10/2004				Plug Bac 1528'	k Total Dep	th		Packer S	Set at	· · · · · · · · · · · · · · · · · · ·			
Casing Size Weight 4 1/2" 10.5#				Internal I 4.052	Diameter	Set 8		Perfo 980	rations	то 1010	 '		
Tubing Si	ze 3/4	p	Weight		Internal C	Diameter		Set at ,		rations	To	_ , ,	٠
Type Con Single (npletio	n (De			Type Flui Dry Ga	d Productio		<u> </u>		nlt or Traveling ing Unit	Plunger? Yes) / No	
			nulus / Tubing)		arbon Diox	lde		% Nitrog		Gas C	aravity -	G,
Annulus	5		_								.6		•
Vertical D	epth(l	H)	- · <u>-</u>			Pres Flan	ssure Taps				(Mete	Run) (F	rover) Size
Pressure	Builde		Shut in 6-14		11 at 1	1:25	(PM)				11 at 11:35		(AM)(PM)
Well on L	ine:		Started 6-15	j 2	0 <u>11</u> at <u>1</u>	1:35	(AM)(PM)	Taken 6-	-16	20	11 at 1:25		(AM) (PM)
					Г	OBSERVE	ED SURFAC		1		Duration of Shu	t-in	Hours
Static / Orifice Dynamic Size Property (inches)		20	Circle one: Meter Prover Pressu. psig (Pm)	Pressure Differential in Inches H ₂ 0	rential Temperature Tempera		Wallhaad Processo		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In							58	72.4	paig	pou	 		
Flow							62	76.4			24	0	
						FLOW ST	REAM ATTR	IBUTES					, , , , , , , , , , , , , , , , , , ,
Plate Coefficeient (F _b) (F _p) Mofd		Pro	Circle one: Mater or Prover Pressure psia Press Extension Pmxh		Fac	Gravity Factor F _g		Flowing Dev Femperature Fa Factor F		Metered Flow R (Mcfd)	GOI (Cubic I Barre	eet/	Flowing Fluid Gravity G _m
										13			
(0.10					·	• •	/ERABILITY	•) ² = 0.	207
(P _c) ² =	· · · · · ·	, I	(P _w) ² =	Choose formula 1 or 2	P _a =	- · · · · · · · · · · · · · · · · · · ·		P _c - 14.4) +		 : ₁		d)2 =	
(P _c)² - (I	P_)*	(F	P _c) ² - (P _w) ²	1, P.2 - P.2	LOG of			ssure Curve pe = "n"	n x	.06			pen Flow liverability
or (P _e)²- (I	P _#)*			2. P ₂ -P ₃ ² livided by: P ₂ -P ₃	formula 1. or 2. and divide by:	b3-b3		or signed lard Slope	- " *	_ ,	Antilog		s R x Antilog (Mcfd)
Open Flo	w			Mcfd @ 14	.65 psia		Deliverat	ollity			Mcfd @ 14.65 p	sia	
		-	•				_	_	_		rt and that he	nas knov	
the facts s	tated	therei	in, and that sa	id report is tru	e and correc	t. Executed	d this the 2	8_	day of <u>C</u>	ecember all	6011	<u></u> . Ил	20 _11
			Witness (il	алу)			-			Ford	C P C	<u>, v</u>	<u></u>
			For Comm	ssion			-			Chec	ked by	K	CEIVED

APR 2 4 2012

exemple and the correct of equilibrium	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request pt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. nat the foregoing pressure information and statements contained on this application form are true and ct to the best of my knowledge and belief based upon available production summaries and lease records uipment installation and/or upon type of completion or upon use being made of the gas well herein named. Thereby request a one-year exemption from open flow testing for the Isernhagen 1-23 Therefore I is a state of Kansas that I am authorized to request a match of the state of the
	(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 further agree to supply to the best of my ability any and all supporting documents deemed by Commissions necessary to corroborate this claim for exemption from testing.
Date: ₋	12/28/11
	Signature:

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.

RECEIVED

APR 2 4 2012

KCC WICHITA

W350

Isernhagen 01-23

St. Francis

St. Francis

Pumping Unit/Elec

June-11

	-	g Casing				HRS	Water	REMARKS
DATE	PSI		STATIC MO			E DOWN		<u> </u>
6/1/2011		71	79	9		0	0	needs wo pu off
6/2/2011		59	80	9	70	0	0	
6/3/2011		58	72	9	7 0	0	0	
6/4/2011		58	72	5	70	0	0	no flow work over rig on well
6/5/2011		59	72	6	70	0	0	
6/6/2011		60	72	6	7 3	0	8	started PU back up work over done
6/7/2011		57	73	5	77	0	12	4 min bt
6/8/2011		58	71	6	77	0	13	
6/9/2011		57	72	6	77	0	16	
6/10/2011		59	71	7	77	0	17	
6/11/2011		59	72	7	77	0	15	
6/12/2011		59	72	7	7 7	0	17	
6/13/2011		59	72	7	77	0	9	5.75 min btgreased
6/14/2011		59	73	7	7 3.5	0	5	si for 24 hrs squeezed
6/15/2011		58	72	0	7 3.5	24	4	reopen well restart pu
6/16/2011		64	83	14	77	0	16	
6/17/2011		63	76	13	77	0	17	
6/18/2011		62	75	13	77	0	16	
6/19/2011		62	75	13	77	0	17	
6/20/2011		62	75	13	77	0	16	
6/21/2011		62	75	13	77	0	13	3.75 min bt
6/22/2011		62	75	14	77	0	12	
6/23/2011		78	100	13	77	1	11	
6/24/2011		63	80	14	77	0	13	
6/25/2011		62	75	14	7 7	0	14	
6/26/2011		62	75	14	7 7	0	12	
6/27/2011		62	75	14	7 7	0	10	5 min bt
6/28/2011		62	74	15	7 7	0	9	
6/29/2011		63	75	15	7 7	0	11	
6/30/2011		63	75	15	77	0	8	
7/1/2011		0	0	0	0 0	0	0	

Total 303 311

RECEIVED

APR 2 4 2012

KCC WICHITA

W350 Isernhagen 01-23 St. Francis St. Francis Pumping Unit/Elec

Jul	ly-	1	1
	.,	•	•

	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CY	CLE DOWN	BBLS	(Maximum length 110 characters
7/1/2011		63	75	15	7	7	0	10	,
7/2/2011		63	75	15	7	7	0	11	
7/3/2011		63	75	15	7	7	0	12	
7/4/2011		63	75	16	7	7	0	11	
7/5/2011		63	75	16	7	7	0	10	
7/6/2011		62	75	16	7	7	0	14	3.5 min bt greased
7/7/2011		62	75	16	7	7	0	13	
7/8/2011		63	75	16	7	7	0	15	
7/9/2011		62	75	16	7	7	0	12	
7/10/2011		62	75	17	7	7	0	15	
7/11/2011		62	75	17	7	7	0	14	3.5 min bt
7/12/2011		62	75	17	7	7	0	12	
7/13/2011		53	73	17	7	7	1	11	
7/14/2011		62	74	17	7	7	0	15	
7/15/2011		62	75	17	7	7	0	14	
7/16/2011		66	75	18	. 7	7	0	13	
7/17/2011		66	80	18	. 7	7	0	14	
7/18/2011		64	76	18	. 7	3.5	5 0	7	shut pu off, high field pressure
7/19/2011		64	84	16	7	3.5	5 2		restart pu 5 min bt
7/20/2011		62	76	17	7	7	0	14	•
7/21/2011		74	86	17	7	3.5	5 0	7	pu off hfp
7/22/2011		58	78	17	7	3.5	5 0	7	restart pu
7/23/2011		62	72	17	7	7	0	14	-
7/24/2011		62	73	17	7	7	0	15	
7/25/2011		60	73	18	7	7	0	17	
7/26/2011		59	72	18		7	0	15	
7/27/2011		60	73	18	. 7	7	0	14	
7/28/2011		61	73	18		7	0	12	4 min bt
7/29/2011		72	85	18	7	7	0	10	
7/30/2011		62	80	19	7	7	0	11	
7/31/2011		62	76	19	7	7	0	12	

Total 526 378

> RECEIVED APR 2 4 2012 KCC WICHITA

W350
Isernhagen 01-23
St. Francis
St. Francis
Pumping Unit/Elec
August-11

	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCL	E DOWN	BBLS	(Maximum length 110 character
8/1/2011		61	74	19	7	7	0	10	
8/2/2011		61	74	19	7	7	0	11	
8/3/2011		60	73	19	7	7	0	11	4.5 min bt greased
8/4/2011		61	74	19	7	7	0	9	
8/5/2011		60	74	19	7	7	0	10	
8/6/2011		61	73	20	7	7	0	12	
8/7/2011		61	74	20	7	7	0	13	
8/8/2011		59	73	20	7	7	0	10	5 min bt
8/9/2011		60	73	20	7	7	0	10	
8/10/2011		55	70	20	7	7	0	9	
8/11/2011		78	80	20	7	7	0	8	
8/12/2011		91	93	20	7	3.5	0	5	shut pumping unit off hfp
8/13/2011		78	95	19	7	0	0	0	
8/14/2011		86	96	17	7	0	0	0	
8/15/2011		86	100	16	7	0	0	0	
8/16/2011		61	86	16	7	3.5	0	5	restart pu
8/17/2011		162	91	15	7	3.5	5	5	pu off hfp
8/18/2011		62	103	18	7	3.5	4	5	restart pu
8/19/2011		68	81	17	7	7	1	10	
8/20/2011		60	74	13	7	7	0	11	
8/21/2011		59	72	19	7	7	0	13	
8/22/2011		58	72	19	7	7	0	9	5.5 min bt
8/23/2011		67	72	20	7	7	0	8	
8/24/2011		58	75	20	7	7	0	10	
8/25/2011		62	73	20	7	7	0	12	
8/26/2011		59	77	20	7	7	0	10	
8/27/2011		61	73	20	7	7	0	9	
8/28/2011		61	74	21	7	7	0	8	
8/29/2011		61	74	21	7	7	0	9	
8/30/2011		60	74	21	7	7	0	11	
8/31/2011		60	74	21		7	0	10	5 min bt

Total 588 263