KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			-		(See Instruc	tions on Rev	rerse Side	9)				
Op	oen Flo	ow 1	ASI		T1 D-1				AD	. N			
Deliverabilty				Test Date: 6/22/14				API No. 15 15-023-20566 → Ø Ø Ø Ø					
Company Rosewo		esou	rces				Lease Isernhag	jen	-		1-27	Well Numi	ber
County Location Cheyenne SWSW				Section 27		TWP 3S		RNG (E/W) 41W			Acres Atti 80	ributed	
Field St. Fran	cis				Reservoir Niobrara					thering Conn Systems In			
Completion 9/10/200		ite			Plug Bac 1589'	k Total Dep	th		Packer	Set at			
Casing S 4 1/2"	ize	•	Weigh 10.5#		Internal Diameter 4.052		Set at 1632'		Perforations 1378'		To 1416		
Tubing Si	ize		Weigh	nt	Internal E	Diameter	Set a	t	Perfo	rations	То	·	
Type Con Single (Type Fluid Dry Ga	d Production	n			nit or Traveling	Plunger? Yes	/ No	
	g Thru		nulus / Tubin	g)		arbon Dioxi	de		% Nitrog		Gas G	iravity - G	
Vertical D		H)				Pres Flan	sure Taps ae					Run) (Prov	rer) Size
Pressure	Buildi	up;	Shut in 6-7	20	0 14 at 1		(PM)	Taken_6-	-16	20	14 at 11:15	(AN	(PM)
Well on L	_ine:		Started 6-2	2 20	14 at 1	1:15	(PM)			20	14 at 1:05	(AN	и)(PM)
						OBSERVE	D SURFACE	DATA			Duration of Shu	360	Hour
Static / Dynamic Property	Static / Orifice Meter Differential Dynamic Size Prover Pressure Inches		Pressure Differential ure in Inches H ₂ 0	Temperature Temperature		(P _w) or (P ₁) or (P ₀)		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			200 (0.117)				235	psia _ 249.4 _	psig	psia			
Flow	<u> </u>						60	74.4			360	0	
						FLOW STR	REAM ATTRI	BUTES					
IC VIC V Prover Pressure		Press Extension	Gravity Factor F _g		Flowing Temperature Factor F ₃ ,	Deviation Factor F _{pv}		Metered Flor R (Mcfd)	w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m		
							_		:	7			
(P _c)² =		_:	(P _w) ² =	·:	(OPEN FLO	• •	ERABILITY)	CALCUL _c - 14.4) +		:) ² = 0.207) ² =	·
(P _c) ² - (l or (P _c) ² - (l	•	(F	P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide	P.2-P.2	Slop Ass	sure Curve e = "n" or igned ard Slope	n v	rog	Antilog	Delive Equals R	rability x Antilog cfd)
													_
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 p	sia	
		•	,		• •		•			-	ort and that he h	ias knowled	dge of
he facts s	stated	there	in, and that s	aid report is true	and correc	t. Executed	this the 12	!		December	1115	, 20	14
			Witness (if any)	KANS		eived TION COMMISS	SION /	ZIN		Company	llle	P
			For Comm	nission		FEB 2	5 2015 -			Che	cked by		

CONSERVATION DIVISION WICHITA, KS

	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
	oregoing 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 i	installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby re	equest a one-year exemption from open flow testing for the <u>lsernhagen 1-27</u>
	e grounds 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
	gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.
	Received as CORPORATION COMMISSION Signature: Signature: Signature: Matturey Title: Production Assistant
C	CONSERVATION DIVISION 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.

W351
Isernhagen 01-27
St. Francis
St. Francis
None
June-134

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	61	74	7	0	
6/2/2018	68	81	5	0	
6/3/2018	70	83	8	0	
6/4/2018	92	105	6	0	
6/5/201 3	56	69	9	0	
6/6/2013	58	71	7	0	
6/7/2013	164	177	4	9	
6/8/201	193	206	4	24	
6/9/2013	193	206	0	24	
6/10/2013	198	211	0	24	
6/11/2013	200	213	0	24	
6/12/201	205	218	0	24	
6/13/2013	206	219	0	24	
6/14/2013	207	220	0	24	
6/15/2013	208	221	0	24	
6/16/2013	235	248	4	24	
6/17/2013	235	248	4	24	
6/18/2013	235	248	0	24	shut in west side of meter
6/19/2013	218	231	0	24	
6/20/2013	218	231	0	24	
6/21/2013	220	233	0	24	
6/22/2013	220	233	0	24	
6/23/2013	125	138	0	5	
6/24/2013	117	130	17	0	
6/25/2013	109		10		
6/26/2013	96		9		
6/27/2013	89		9		
6/28/201	60		10		
6/29/2018	58		9		
6/30/2013	61	74	7		
7/1/2013				0	

Total 129

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W351 Isernhagen 01-27 St. Francis St. Francis None July-14

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	61	74	7	0	
7/2/2014	60	73	7	0	
7/3/2014	60	73	7	0	
7/4/2014	60	73	7	0	
7/5/2014	61	74	7	0	
7/6/2014	61	74	7	0	
7/7/2014	78	91	6	0	
7/8/2014	63	76	8	0	
7/9/2014	62	75	7	0	
7/10/2014	63	76	7	0	
7/11/2014	64	77	7	0	
7/12/2014	66	79	7	0	
7/13/2014	67	80	7	0	
7/14/2014	71	84	7	0	
7/15/2014	57	70	8	0	
7/16/2014	57	70	8	0	
7/17/2014	61	74	7	0	
7/18/2014	61	74	7	0	
7/19/2014	61	74	7	0	
7/20/2014	60	73	7	0	
7/21/2014	78	91	7	0	
7/22/2014	180	193	4	22	
7/23/2014	87	100	0	7	
7/24/2014	67	80	14		
7/25/2014	59		8		
7/26/2014	55	68	7		
7/27/2014	57		7	-	
7/28/2014	58		7		
7/29/2014	65		6		
7/30/2014	58		7		
7/31/2014	61	74	6	0	

Total 215

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

August-14

	Casing		HR	s	REMARKS
DATE	PSI	STATIC MCF	DO	WN	(Maximum length 110 characters)
8/1/2014	57	70	7	0	
8/2/2014	57	70	7	0	
8/3/2014	57	70	6	0	
8/4/2014	58	71	6	0	
8/5/2014	58	71	6	0	
8/6/2014	58	71	6	0	
8/7/2014	59	72	6	0	
8/8/2014	59	72	6	0	
8/9/2014	60	73	6	0	
8/10/2014	62	75	6	0	
8/11/2014	59	72	6	0	
8/12/2014	57	70	7	0	
8/13/2014	56	69	6	0	
8/14/2014	56	69	6	0	
8/15/2014	63	76	6	3	
8/16/2014	60	73	6	0	
8/17/2014	60	73	6	0	
8/18/2014	62	. 75	7	0	
8/19/2014	67	80	8	2	
8/20/2014	67	80	8	0	
8/21/2014	60	73	7	0	
8/22/2014	69	82	6	0	
8/23/2014	57	70	7	0	
8/24/2014	59		6	0	
8/25/2014	74		5	0	
8/26/2014	61	74	7	0	
8/27/2014	63	76	6	0	
8/28/2014	57	70	7	0	
8/29/2014	56		9	5	
8/30/2014	56	69	9	0	
8/31/2014	70	83	6 _	0	

Total 203

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