KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:		-t-T		(See Instruci	tions on Re	verse Side	9)					
Op	en Flo	w £	STATE		Test Date	·			ΔΡΙ	No. 15				
Deliverability					6/22/14					API No. 15 15-023-20590 ~ 0000				
Company		sou	rces				Lease Isernha	gen			2-22	Well Number		
County Location Cheyenne NWSE			Section 22		TWP RNG (E/W) 3S 41W			(W)		Acres Attributed 80				
Field St. Fran	cis				Reservoir Niobrara					hering Conn Systems In				
9/10/200		е			Plug Bac 1400'	k Total Dept	th		Packer S	Set at				
Casing S 4 1/2"	Casing Size Weight 4 1/2" 10.5#			Internal E 4.052	Diameter	Set at 1411'		Perforations 1261'		To 1297'				
Tubing Si	ize		Weight		Internal D	Diameter	Set	at	Perfo	rations	То			
Type Con Single (Type Flui Dry Ga	d Production	າ			nit or Traveling ing Unit	Plunger? (Yes	/ No		
Producing Annulus	-	(Anı	nulus / Tubing)	% C	Carbon Dioxi	de		% Nitrog	jen	Gas Gr	avity - G _g		
Vertical D	epth(H	I)				Press Flan	sure Taps Ge	_	_		(Meter F 2"	Run) (Prover) Size		
	Buildu	p:	Shut in 6-7	2	0 14 at 1		(AM) (PM)	Taken_6•	16		14 _{at} 11:25	(AM) (PM)		
Well on L	ine:		Started 6-22	2	0 <u>14</u> at <u>1</u>		(PM)		23	20	14 at 1:15	(AM)(PM)		
	. ——-				 	OBSERVE	D SURFAC	E DATA	_		Duration of Shut-	in_360 Hours		
Static / Dynamic Property	Orifi Siza (incha	е	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Wellhead	sing Pressure P ₁) or (P _c) psia	Wellhe	fubing ad Pressure r (P ₁) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In							235	249.4	p 0/g					
Flow							60	74.4		<u> </u>	360	0		
						FLOW STR	EAM ATTE	IBUTES						
Plate Coeffiec (F _b) (F Mcfd	ient p)	Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fact	tor	Flowing Femperature Factor F _{ft}	Fa	iation ctor : pv	Metered Flov R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m		
	Ì		-							2				
(D.) 6			(D.)0		•	OW) (DELIV		•				²= 0.207		
(P _c)² =:		<u>-:</u>	(P _w) ² =_	hoose formula 1 or 2	P _d =		1	- 14.4) +		 :	(b ^q);			
(P _c) ² - (I or (P _c) ² - (I		(F	P _e) ² - (P _w) ²	1. P _d ² -P _a ² 2. P _d ² -P _d ²	LOG of formula 1. or 2. and divide	D 2_ D 2	Ślo	ssure Curve pe = "n" - or signed	n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog		
	<u>.</u>			livided by: $P_c^2 - P_w$	by:	P _c ² - P _w ²	Stand	lard Stope			<u> </u>	(Mcfd)		
Open Flo	w			Mcfd @ 14.	65 psia		Deliveral	oility			Mcfd @ 14.65 psi	<u>a</u>		
		•	•				•			•	rt and that he ha	-		
the facts s	tated ti	nerei	in, and that sa	id report is true	e and correc			2	day of _D	ecember	1110-40	, 20 <u>14</u>		
			Witness (if	any)	KAI	VSAS CORP OR		_	zu i	MUL For C	MUSUUM Company	up _		
			For Commi	ssion		FEB 2	2 5 2015		 	Che	cked by	<u> </u>		

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
	going pressure information and statements contained on this application form are true and
· ·	t 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.
	est a one-year exemption from open flow testing for the <u>Isernhagen 2-22</u>
gas well on the gr	rounds 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
一	is on vacuum at the present time; KCC approval Docket No
7	is not capable of producing at a daily rate in excess of 250 mcf/D
-	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: <u>12/12/14</u>	
	Received MISAS CORPORATION COMMISSION 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.

W352 Isernhagen 02-22 St. Francis St. Francis None June-134

	Casing			HRS	REMARKS	
DATE	PSI	STATIC M	CF :	DOWN	(Maximum length 110 character	
6/1/201 34	59	72	2	0	·	
6/2/2013	65	78	2	0		
6/3/2013	66	79	3	0		
6/4/2018	87	100	2	0		
6/5/2013	55	68	3	0		
6/6/2013	55	68	2	0		
6/7/2013	164	177	1	9		
6/8/2013	192	205	1	24		
6/9/2013	194	207	0	24		
6/10/2013	199	212	0	24		
6/11/2013	200	213	0	24		
6/12/2013	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	0	24		
6/17/2013	235	248	0	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	218	231	0	24		
6/22/2013	218	231	0	24		
6/23/2013	125	138	0	5		
6/24/2013	116	129	0	0		
6/25/201	108	121	11	0		
6/26/2013	96		4	0		
6/27/201	88	101	3	0		
6/28/2013	60	73	3	0		
6/29/2013	58	71	3	0		
6/30/2013	60	73	3	0		
7/1/2013				0		

Total 43

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CONSERVATION DIVISION WICHITA, KS

W352 Isernhagen 02-22 St. Francis St. Francis None July-14

	Casing		HP	as T	REMARKS
DATE		STATIC MCF	DC)WN	(Maximum length 110 characters)
7/1/2014	60	73	3		
7/2/2014	59	72	3	0	
7/3/2014	60	73	2	0	
7/4/2014	60	73	2	0	
7/5/2014	61	74	2	0	
7/6/2014	61	74	2	0	
7/7/2014	77	90	2	0	
7/8/2014	63	76	2	0	
7/9/2014	62	75	2	0	
7/10/2014	63	76	2	0	
7/11/2014	64	77	2	0	
7/12/2014	66	79	2	0	
7/13/2014	67	80	2	0	
7/14/2014	71	84	2	0	
7/15/2014	56	69	3	0	
7/16/2014	56	69	3	0	
7/17/2014	61	74	2	0	
7/18/2014	60	73	2	0	
7/19/2014	60	73	2	0	
7/20/2014	60	73	2	0	
7/21/2014	78	91	2	0	
7/22/2014	180	193	1	22	
7/23/2014	87	100	4	7	
7/24/2014	66	79	3	3	
7/25/2014	58	71	3	4	
7/26/2014	54	67	2	0	
7/27/2014	56	69	2	0	
7/28/2014	58	71	2	0	
7/29/2014	64	77	2	0	
7/30/2014	58	71	2	0	
7/31/2014	60	73	2	0	

Total 69

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W352 Isernhagen 02-22 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	2	0	
8/2/2014	57	70	2	0	
8/3/2014	57	70	2	0	
8/4/2014	57	70	2	0	
8/5/2014	58	71	2	0	
8/6/2014	58	71	2	0	
8/7/2014	59	72	2	0	
8/8/2014	58	71	2	0	
8/9/2014	59	72	2	0	
8/10/2014	61	74	2	0	
8/11/2014	58	71	2	0	
8/12/2014	57	70	2	0	
8/13/2014	56	69	2	0	
8/14/2014	56	69	2	0	
8/15/2014	62	75	2	3	
8/16/2014	60	73	2	0	
8/17/2014	60	73	2	0	
8/18/2014	61	74	2	0	
8/19/2014	66	79	2	2	
8/20/2014	66	79	2	0	
8/21/2014	59	72	2	0	
8/22/2014	69	82	2	0	
8/23/2014	57	70	2	0	
8/24/2014	59	72	2	0	
8/25/2014	74	87	2	0	
8/26/2014	60	73	2	0	
8/27/2014	62		2	0	
8/28/2014	56		2	0	
8/29/2014	56	69	3	5	
8/30/2014	56		3	0	
8/31/2014	70	83	2	0	

Total 64

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