KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			mer T		6	See Instruct	ions on Rev	verse Side)			•
Op	en Flov	" ſ	XIJI									
	liverabl				Test Date 5/9/2011					1 No. 15 3-21260-00 -	· 0 0	
Company		soui	rces, Inc.			<u> </u>	Lease Zweyga	rdt			11-19	Well Number
County Cheyenr	ne		Locatio NWNW	on	Section 19		TWP 3S		RNG (E 40W	/W)		Acres Attributed 80
Field Cherry C	reek				Reservoir Niobrara					thering Conn Systems In		
Completic 9/23/201		8	•		Plug Bad 1418'	k Total Dept	h		Packer S	Set at		
Casing S 4 1/2"	ize		Weigh: 10.5#	-	Internal E 6.366	Diameter	Set a 1454		Perfo 125	orations 2'	то 1282'	- :
Tubing Si				Internal C	Diameter	Set a	it	Perfo	orations	_		
Type Con Single (Type Fluid Dry Ga	d Production	1		Pump U	nit or Traveling	Plunger? Yes	No The second
-		(Anr	nulus / Tubing	<u>,</u>	% C	arbon Dioxi	de		% Nitrog	gen		ravity - G _q
Annulus				_							.6	
Vertical D	epth(H)				Pres Flan	sure Taps ge				(Meter	Run) (Prover) Size
Pressure	Buildu		Shut in 5-8		0 11 at 5		(AM)(PM)			20	· · · · · · · · · · · · · · · · · · ·	(AM(PM)
Well on L	ine:	:	Started 5-9	2	0 11 at 5	40	(AM) (PM)	Taken <u>5-</u>	10	20	11 at 5:55	(AM)(PM)
			,			OBSERVE	D SURFACE	DATA	,		Duration of Shut	-in 24 Hours
Static / Dynamic	Orific Size	Meter Prover Pressure		Pressure Differential re in	Flowing Well Head Temperature Temperature		Casing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Tubing Wellhead Pressure (P_w) or (P_1) or (P_2)		Duration (Hours)	Liquid Produced (Barrels)
Property	(inche	psig (Pm)		Inches H ₂ 0	t	t	psig psia		psig	psia		
Shut-In							140	154.4				
Flow							98	112.4	<u> </u>		24	
						FLOW STR	EAM ATTRI	BUTES				
Coeffied	Plate Coeffictient (F _b) (F _p) Meff		Circle one: Meter or over Pressure psia	Press Extension ✓ P _m xh	Gravity Factor F _g		Temperature Fa		iation ctor pv	Metered Flow R (Mcfd)	v GOR (Cubic F Barrel	eat/ Fluid
										36		
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(Þ)² = 0.207
(P _c) ² =		;	(P _w) ² =	:	$P_d =$		% (P	· - 14.4) +	14.4 = _	:) ² =
(P _c) ² - (F	_	(F	P _c) ² - (P _w) ²	1. P ₂ -P ₂ 2. P ₂ -P ₂	LOG of formula 1, or 2.		Slop	ssure Curve be = "n" or	. n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog
(P _c)²- (i	2,0			tivided by: P _c ² - P _y	and divide by:	P. 2 - P. 3		signed ard Slope		_ }	· · · · · · · · · · · · · · · · · · ·	(Mcfd)
<u> </u>											· · · · · · · · · · · · · · · · · · ·	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	sia
The i	undersi	igned	d authority, or	behalf of the	Company, s	tates that h	e is duly au	thorized t	o make ti	he above repo	ort and that he h	as knowledge of
the facts s	tated th	nerei	in, and that sa	ld report is true	and correc	t. Executed	this the 28	3	day of	ecember	11 /.	, 20 11
			Witness (ii	any)					-) [inch	Company OC	Wee .
-			For Comm	ssion		· ·····	=	· · · · · · · · · · · · · · · · · · ·	<u> </u>	Che	cked by	KECEIVED

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	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
and that the foregoernect to the best of equipment instant	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 tof 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 Zweygardt 11-19
gas well on the gr	ounds that said well: 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
-	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: 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.

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W2730

Zweygardt 11-19

St. Francis

St. Francis

Flow

May-11

FloBoss

		g Casing			HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	_	CYCLEDOWN	BBLS	(Maximum length 110 characters)
5/1/2011		181	121				•
5/2/2011		181	121				
5/3/2011		110	120	42			
5/4/2011		110	119	41			
5/5/2011		111	118	41			
5/6/2011		117	104	41			
5/7/2011		117	104	41			
5/8/2011		133	146	40			
5/9/2011		140	153	0	24		Compressor Down
5/10/2011		119	132				
5/11/2011		117	130				•
5/12/2011		117	130	46			
5/13/2011		114	127	46			
5/14/2011		106	119	44			
5/15/2011		104	117	41			
5/16/2011		103	116	41			
5/17/2011		102	115	40			
5/18/2011		101	114	39			
5/19/2011		100	113	39			
5/20/2011		100	113	39			
5/21/2011		100	113	38			
5/22/2011		109	122	37			
5/23/2011		100	113	39			
5/24/2011		98	111	39			
5/25/2011		98	111	38			
5/26/2011		98	111	38			
5/27/2011		99	112	38			
5/28/2011		100	113	38			
5/29/2011		100	113	38			
5/30/2011		100	113	38			
5/31/2011		99	112	38			

Total 1171 0

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Zweygardt 11-19

St. Francis

St. Francis

Flow

June-11

FloBoss

Total

		Casing				HRS	Water	REMA	
DATE	PSI	PSI	STATIC		CYCLE	DOWN	BBLS	(Maximum length	110 characters
6/1/2011		107							•
6/2/2011		99							
6/3/2011		98	111	36					
6/4/2011		99	112	. 36					
6/5/2011		99							
6/6/2011		98	111	36					
6/7/2011		97	110	36					
6/8/2011		96	109	36					1
6/9/2011		97	110	36					
6/10/2011		97		36					
6/11/2011		97	110	35					
6/12/2011		97	110	35					
6/13/2011		97	110	35					
6/14/2011		97	110	35					
6/15/2011		96	109	35					
6/16/2011		100	113	35					
6/17/2011		97	110	35					
6/18/2011		98	111	35					
6/19/2011		98	111	35					
6/20/2011		97	110	35					
6/21/2011		97	110	35					
6/22/2011		97	110	34					
6/23/2011		110	123	32		1			
6/24/2011		98	111	35					
6/25/2011		97	110	34					
6/26/2011		97	110	34					
6/27/2011		96	109	34					
6/28/2011		96	109	34					
6/29/2011		96	109	34					
6/30/2011		96	109	34					
7/1/2011									1

1050

0

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W2730

Zweygardt 11-19

St. Francis

St. Francis

Flow

July-11

FloBoss

		Casing					HRS	Water	REMA	
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length	110 characters
7/1/2011		96		33			·			. ———
7/2/2011		95	108	33						
7/3/2011		95	108	33						
7/4/2011		95	108	33						
7/5/2011		96		33						
7/6/2011		94		33						
7/7/2011		95	108	33						
7/8/2011		95	108	33						
7/9/2011		95	108	33						
7/10/2011		95	108	33						
7/11/2011		94	107	33						
7/12/2011		93		33						
7/13/2011		87	100	33			1			
7/14/2011		94	107	32						
7/15/2011		93	106	33						
7/16/2011		94	107	32						
7/17/2011		96	109	32						
7/18/2011		104	117	32						
7/19/2011		95	108	32			2			
7/20/2011		93	106	32						
7/21/2011		99	112	32						
7/22/2011		91	104	31						
7/23/2011		92	105	31						
7/24/2011		90	103	32						T.
7/25/2011		92	105	32						•
7/26/2011		91	104	32						0
7/27/2011		90	103	32						
7/28/2011		92	105	32						
7/29/2011		96	109	32						
7/30/2011		92	105	32						
7/31/2011		92	105	32						

Total 1004 0

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