KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flow	MEST		(See Instruc	tions on Re	verse Side)				
_ :	liverabil				Test Date: API No. 15 7/18/2013 023-21250-00 0							
Company		ources, Inc.				Lease Zimbeli		Well Number 24-24				
			Section 24					W)		Acres Attributed		
Field F				Reservoir Niobrara				41W 80 Gas Gathering Connection Branch Systems Inc.				
Completion 10/2/201				Plug Bac 1485'	Plug Back Total Depth 1485'			Packer S	Set at			
Casing Size Weight 4 1/2" 10.5#						at Perforations 23' 1346'			To 1376'			
Tubing S NONE	ize	Weig	ht	Internal [Internal Diameter Set at			Perfo	rations	То		
		(Describe) entional)			Type Fluid Production Dry Gas				nit or Traveling	Plunger? Yes	(No)	
Producing		Annulus / Tubir	g)	ide	% Nitrogen			Gas Gravity - G _g .6				
	Vertical Depth(H)			 	Pressure Taps Flange						Run) (Prover) Size	
	Buildun	· Shut in 7-	7 2	0 13 _{at} 6		-	(PM) Taken 7-18		20	13 _{at} 6:25	(AM((PM))	
Pressure Buildup: Shut in 7-17 Well on Line: Started 7-18		8 2							13 _{at} 6:45	(AM)(PM)		
					OBSERVE	D SURFAC	E DATA			Duration of Shut-i		
Static / Dynamic Property	Dynamic Size		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	nperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing ad Pressure r (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		psig (Pm)	mones 17 ₂ 0			psig 188	202.4	psig	psia			
Flow						63	77.4			24		
				<u> </u>	FLOW STF	REAM ATTE	RIBUTES	1				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fact F _g	tor	Flowing Temperature Factor	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m	
					•				20			
				-	OW) (DELIV		-				= 0.207	
(P _c) ² =	Т	: (P _w) ² =	Choose formula 1 or 2	P _d =	 `		P _c - 14.4) +	14.4 =	 :	(P _d) ²		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	 P_c² - P_a² P_c² - P_d² divided by: P_c² - P_w² 	LOG of formula 1. or 2. and divide by:	formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n"or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					•							
Open Flo	MV		Mcfd @ 14.	65 psia	-	Deliveral	nility		_	Mcfd @ 14.65 psi		
		nod authority o		···	tatoe that h	•		n make th		ort and that he has		
	_	•	aid report is true	and correct	t. Executed	deiselved2	1	day of N	ovember	Mait	, 20 <u>13</u>	
		Witness	(if any)		DE	PORATION C	2013	M/	Ford	Company (CCC)	elle -	
		For Com	nîssion			ecovation.				cked by		

CONSERVATION DIV

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 Zimbelman 24-24
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.
Date: 11/21/13
Date:
RECEIVED KANSAS CORPORATION COMMISSIONIQUATURE:
DEC 2 6 2013 Title: Production Assistant
CONSERVATION DIVISION WICHITA, KS

Instructions:

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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.

W2735

Zimbelman 24-24

St. Francis

St. Francis

Flow

July-13

FloBoss

FloBoss							- '
	Casing				HRS	Water	
DATE	PSI	STATIC 1	MCF S	PM	CYCLE DOW	N BBLS	(Maximum length 110 characters)
7/1/2013	55	68	. 7				
7/2/2013	58		7				
7/3/2013	55		7				
7/4/2013	58		7				
7/5/2013	58		7				
7/6/2013	58		7				
7/7/2013	70		7				
7/8/2013	68		7				
7/9/2013	65		7				
7/10/2013	63		7			•	
7/11/2013	66		7				,
7/12/2013	72		7				
7/13/2013	75		7		2	.5	
7/14/2013	78	91	7				
7/15/2013	58		7				
7/16/2013	54		7				
7/17/2013	63	65	7				si for state test - cp 63
7/18/2013	188		0		2	24	reopened - cp 188
7/19/2013	70		9				
7/20/2013	74		8				
7/21/2013	76	89	8				
7/22/2013	71		8				
7/23/2013	69		8				
7/24/2013	76		8				
7/25/2013	79		7				
7/26/2013	68		7	6	12		2 started pu
7/27/2013	58		12	6	24		3 bucket test 4 min
7/28/2013	63		20	6	24	42	
7/29/2013	65		22	6	24	42	
7/30/2013	94		29	6			2 pu off hfp
7/31/2013	117	130	13	6	0 5	.5 (0

Total 278

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CONSERVATION DIVISION WICHITA, KS

W2735

Zimbelman 24-24

St. Francis

St. Francis

Flow

August-13

FloBoss

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC				DOWN	BBLS	(Maximum length 110 characters)
8/1/2013	88		17	6				
8/2/2013	82		25	6				
8/3/2013	76	89	19	6				
8/4/2013	77	90		6				
8/5/2013	68	81	17	6				
8/6/2013	60	73	17	6				
8/7/2013	54	67	16	6	12		24	restart pu
8/8/2013	67	80	25	6	24		42	
8/9/2013	73	86	33	6	24		47	
8/10/2013	76	89	38	6	24		46	
8/11/2013	80	93	41	6	24		45	
8/12/2013	70	83	44	6	24		47	turned pu off, no water
8/13/2013	65	78	32	6	12		22	restart pu put on auto
8/14/2013	73	86	38	6	12		21	
8/15/2013	66	79	32	6	12	0.5	21	4 min bt greased
8/16/2013	73	86	27	6	12		20	
8/17/2013	72	85	25	6	12		22	
8/18/2013	72	85	24	6	12		21	,
8/19/2013	73	86	23	6	6	1.5	11	pu off hfp
8/20/2013	90	103	20	6	0	1	0	
8/21/2013	89	102	14	6	0		0	
8/22/2013	90	13	3	6	0	5	0	
8/23/2013	82	93	17	6	0		0	
8/24/2013	86	99	24	6	0	1	0	
8/25/2013	90	103	15	6	0	1	0	
8/26/2013	62	75	20	6	0		0	
8/27/2013	57	70	20	6	6		11	restarted
8/28/2013	56	69	18	6	12		22	
8/29/2013	92	105	18	6	6	1	11	pu off hfp
8/30/2013	84	97	9	6	0		0	
8/31/2013	89	102	16	6	0		_0	

Total 705 433

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CONSERVATION DIVISION WICHITA, KS W2735

Zimbelman 24-24

St. Francis

St. Francis

Flow

September-13

FloBoss

_	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC I	ИCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2013	108		14			1	-	
9/2/2013	94	107	9					
9/3/2013	162	175	13			22		
9/4/2013	176	189	1			10		
9/5/2013	115		0					
9/6/2013	89		0			1		
9/7/2013	95	108	12					
9/8/2013	93	105	12					
9/9/2013	95		12					
9/10/2013	98		10			2		
9/11/2013	143		8					
9/12/2013	174		3			18		
9/13/2013	91	104	6			4		
9/14/2013	81	94	21			2		
9/15/2013	88	101	21					
9/16/2013	66	79	21					
9/17/2013	59		18					
9/18/2013	57		18					
9/19/2013	52		16					restart pu
9/20/2013	39	52	16	6			21	
9/21/2013	43	56	15	6			20	treated well
9/22/2013	65	78	15	6			21	
9/23/2013	68	81	15	ϵ				not running on auto
9/24/2013	95	108	15	6		4		pu off hfp
9/25/2013	89		10				0	
9/26/2013	75	88	17	6			0	
9/27/2013	57	70	15	6	6		10	restart pu
9/28/2013	70		22				21	
9/29/2013	75	88	32	6			23	
9/30/2013	82	95	38	6	12		22	
10/1/2013								

Total 425 148

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CONSERVATION DIVISION WICHITA, KS