KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	MSI.		C	See Instruct	tions on Rev	erse Side	9)				
Open Flow	Test Date: API No. 15										
Deliverabilty											
Company Rosewood Reso	urces, Inc.				Lease Zweygar	dt			31-24	Well Number	
County Cheyenne	Location NWNE		Section 24		TWP 3S		RNG (E 41W	/W)		Acres Attributed 30	
Field Cherry Creek			Reservoir Niobrara					thering Conn Systems In			
Completion Date 10/12/2010			Plug Back 1416'	k Total Dept	th		Packer \$	Set at			
Casing Size 4 1/2"	Weight Internal Diameter 10.5# 6.366					Set at Perforations 1456' 1192'			To 1222'		
Tubing Size	Weight		Internal D	Diameter	Set at		Perfo	rations	То		
Type Completion (Single (Conver			Type Fluid	d Production	n		Pump U	nit or Traveling	Plunger? Yes	(No)	
Producing Thru (A	<u>.</u>		<u> </u>	arbon Dioxi	de		% Nitrog	-	Gas Gra	avity - G _g	
Vertical Depth(H)				Pres	sure Taps					Run) (Prover) Size	
1470'				Flan	-	_			2"		
Pressure Buildup:					(AM)(PM)				14 at 6:00	(AM(PM)	
Well on Line:	Started 6-22	20	14 at 6:	100	(AM) (PM)	Taken 6-	23	20	14 at 6:25	(AM)(PM)	
				OBSERVE	D SURFACE	DATA	_		Duration of Shut-		
Static / Orifice Dynamic Size Property (inches)	Dynamic Size Meter Differential Topocarty (inches)		Flowing Temperature t	emperature Temperature		Casing Wellnead Pressure (P _w) or (P ₁) or (P _c)		Tubing ead Pressure or (P _r) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	. psig (Pm)	Inches H ₂ 0			222	psia 236.4	psig	psia			
Flow				_	54	68.4			360		
		_		FLOW STR	EAM ATTRI	BUTES				 -	
Plate Coeffiecient (F _b) (F _p) Mcfd	coefficient Meter or Extension Factor Fover Pressure P			Flowing Femperature Factor F _{tt}	Fa	Deviation Meterer Factor F F _{pv} (Mo		y GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m		
							1	12			
			(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a)	2 = 0.207	
(P _c) ² =:	(P _w) ² =	: _	P _d =		% (P,	- 14.4) +	· 14.4 = _	<u> </u>	(P ^a);	; =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P _c) ² - (P _w) ²	1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_{cc}^2$	LOG of formula 1, or 2, and divide by:	P _c ² - P _w ²	Slope Ass	sure Curve e = "n" ori igned rd Slope	l n x	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
	divi					r					
					<u> </u>			<u>_</u>			
Open Flow		Mcfd @ 14.6	65 psia		Deliverabi	lity			Mcfd @ 14.65 psi	a	
_									ort and that he ha	s knowledge of	
the facts stated their	rein, and that said	report is true		Rec	eived		day of _	December	Min	-, 20	
	Witness (if ar	ту)	KAN	ISAS CORPOR	ATION COMMIS	SION >	W	Ford	Company	vey_	
	For Commiss	ion		FEB 2	2 5 2015-			Che	cked by		

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 Zweygardt 31-24 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. vis 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: 12/12/14 Received Kansas corecgration commission Signature:	exempt status und	der Rule K.A.R. 82-3-30	under the laws of the state of Kansas that I am authorized to request 04 on behalf of the operator Rosewood Resources, Inc.
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: 12/12/14 Received KANSAS CORPORATION COMMISSION Signature: Adatabase Transaction Commission Signature: Adatabase Transaction Commission	correct to the bes of equipment inst I hereby requ	st of my knowledge and callation and/or upon typ lest a one-year exempti	belief based upon available production summaries and lease records pe of completion or upon use being made of the gas well herein named.
Received KANSAS CORPORATION COMMISSION Signature:	I further agre	is a coalbed methane is cycled on plunger is is a source of natural is on vacuum at the p is not capable of proceet	lift due to water Il gas for injection into an oil reservoir undergoing ER present time; KCC approval Docket No ducing at a daily rate in excess of 250 mcf/D It of my ability any and all supporting documents deemed by Commission
IME: Toddorott toddorut	Kansas	Received s CORPORATION COMMISSION FEB 2 5 2015	Signature: <u>Janual Mattury</u> Title: Production Assistant

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.

W2743

Zweygardt 31-24

St. Francis

St. Francis

Flow

June-184

FloBoss

	Casing	·		HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	54	67	14	0	
6/2/2013	59	72	14	0	
6/3/2013	78	91	14	0	
6/4/2011	68		14	0	
6/5/2013	50	63	14	0	
6/6/2013	51	64	13	0	
6/7/2013	176	189	7	9	
6/8/2013	190	203	0	24	
6/9/2013	202	215	0	24	
6/10/201	214			24	
6/11/2013	222			24	
6/12/2013	227			24	
6/13/2013	229			24	
6/14/2013	230	243	0	24	
6/15/2013	230	243	0	24	
6/16/2013	231	244	0	24	
6/17/2013	232	245	0	24	
6/18/2013	231	244	0	24	
6/19/2013	226	239	0	24	
6/20/2013	224	237	0	24	
6/21/2013	222	235	0	24	
6/22/2013	222	235	0	24	
6/23/2013	132	145	21	5	
6/24/2013	113	126	33	0	
6/25/2013	106	119	22	0	
6/26/2013	92	105	19	0	
6/27/2013	86	99	19	0	
6/28/2013	55	68	18	0	
6/29/2013	54	67	16	0	
6/30/2013	55	68	16	0	
7/1/2013				0	

Total 254

Received KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION WICHITA, KS

W2743

Zweygardt 31-24

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing				HRS	REMARKS
DATE	PSI_	STATIC	MCF		DOWN	(Maximum length 110 characters)
7/1/2014	55	68		15		
7/2/2014	56	69		15	0	
7/3/2014	56	69		14	0	
7/4/2014	56	69		14	0	
7/5/2014	57	70		14	0	
7/6/2014	56	69		14	0	
7/7/2014	56	69		14	0	
7/8/2014	56	69		14	0	
7/9/2014	58	71		14	0	
7/10/2014	59	72		13	0	
7/11/2014	61	74		13	0	
7/12/2014	60	73		13	0	
7/13/2014	61	74		13	0	
7/14/2014	88	101		13	0	
7/15/2014	51	64		13	0	
7/16/2014	53	66		12	0	
7/17/2014	54	67		12	0	
7/18/2014	54	67		12	0	
7/19/2014	50	63		12	0	
7/20/2014	53	66		12	0	
7/21/2014	136	149		12	0	
7/22/2014	135	148		3	22	
7/23/2014	77	90		17	7	
7/24/2014	61	74		14	3	
7/25/2014	51	64		12	4	
7/26/2014	51	64		12	0	
7/27/2014	51	64		12	0	
7/28/2014	52	65		12	0	
7/29/2014	51	64		12	0	
7/30/2014	53	66		12	0	
7/31/2014	55	68		12	. 0	

Total

396

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CONSERVATION DIVISION WICHITA, KS W2743

Zweygardt 31-24

St. Francis

St. Francis

Flow

August-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
8/1/2014	40		12	0	
8/2/2014	39			0	
8/3/2014	52			0	
8/4/2014	52			0	
8/5/2014	53			0	
8/6/2014	54			0	
8/7/2014	54			0	
8/8/2014	51	64		0	
8/9/2014	57			0	
8/10/2014	57			0	
8/11/2014	58		11	0	
8/12/2014	52			0	
8/13/2014	39			0	
8/14/2014	52	65	11	0	
8/15/2014	58	71	11	3	
8/16/2014	57	70	11	0	
8/17/2014	58	71	11	0	
8/18/2014	57	70	11	0	
8/19/2014	65	78	11	2	
8/20/2014	55	68	11	0	
8/21/2014	55	68	11	0	
8/22/2014	58	71	11	0	
8/23/2014	51	64	11	0	
8/24/2014	53	66	11	0	
8/25/2014	80			0	
8/26/2014	54		11	0	
8/27/2014	57			0	
8/28/2014	116	129	11	0	
8/29/2014	37	50	11	5	
8/30/2014	51	64	11	0	
8/31/2014	64	77	11	0	

Total 347

Received
KANSAS CORPORATION COMMISSION

FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS