## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			_			(	See Inst	ruct	ions on Re	vers	se Side,	)							
Op	en Flo	w į	ASI			T B	_					4.5							
	liverab		•			Test Date 6/22/14							.00 3-20	15  554-000	00				
Company Rosewoo		sou	rces, Inc.			0.22.17			Lease Northru	p.							2-33	Well N	ımber
County Cheyenr			Loca SWSI			Section 33			TWP 2S	·		RNG (E 42W	W)	<u> </u>				Acres .	Attributed
Field Cherry C	Creek					Reservoir Niobrara								ng Conr stems In		n			
7-15-200		ө				Plug Bac 1815'	k Total D	ept	h			Packer 5	Set a	at					
Casing S 4 1/2"	ize		Weig 10.5			Internal D	Diameter		Set a			Perfo		ons		•	то 1634'		
Tubing Si	20	_	Weig	ht		internal E	Diameter		Set a	at		Perfo	ratio	ns			То		·
Type Con Single (						Type Flui		ction	1			Pump U		r Traveling Unit	g Plui	nge	er? Yes	)/ No	
	Thru		nulus / Tubi	ng)		•	arbon D	ioxi	de			% Nitrog					Gas Gr	avity -	G <sub>g</sub>
Vertical D		()					P	ress	sure Taps									Run) (P	rover) Size
1634'		7						ang	•								2"	, (	,
Pressure	Buildu	•	Shut in 6-		2	0_14_at_1	1:40		(AM) (PM)	Tak	ken_6 -	18					11:50		(AM)(PM)
Well on L	ine:		Started .6-	22	20	0 14 at 1	1:50	(	(PM)	Tak	<sub>сеп.</sub> 6-2	23		20	14	at	1:40		(AM)(PM)
							OBSER	NE	D SURFACI	E D	ATA				Dura	atio	n of Shut-	<sub>in</sub> _36	0 Hours
Static / Dynamic	Dynamic Size Prover Pressure			Pressure Differential in	Differential Flowing Well He in Temperature Tempera		Mailhead Preceure			Tubing Wellhead Pressure (P, ) or (P, ) or (P, )			Duration (Hours)			d Produced Barrels)			
Property	(inch	es)	psig (Pm	)	Inches H <sub>2</sub> 0	1	t i		psig	J	psia	psig	Ť	psia	<u> </u>			_	
Shut-In									190	-	04.4		+		00	_	_	<u> </u>	
Flow									46		).4		_ _		36	<u> </u>	_	0	
			Circle one:	Т		1	FLOW S	STH	Flowing	IBO	TES				-1				
Coeffied	V b/ V p/		Meter or Prover Pressure psia		Press Gravi Extension Factor  ✓ P <sub>m</sub> x h F <sub>g</sub>		tor Temperature			Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		w	GOR (Cubic Feet Barrel)			Flowing Fluid Gravity G <sub>m</sub>	
										1			10	1					
(5.)	<u>_</u>		(T. ) (			•			ERABILITY									²= 0.2	107
(P <sub>a</sub> ) <sup>2</sup> =		<u>-:</u>	(P <sub>w</sub> )²	_	ose formula 1 or 2:	P <sub>d</sub> = .		<u>—"</u>	Т —	<u> </u>	14.4) +	14.4 =		<u>:</u>			(P <sub>d</sub> )		<del></del>
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(F	) <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	:	1. P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> 2. P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> sed by: P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	2		06 = - 01~ signe	"n"  ed	n x	LOG			Ar	ntilog	De	pen Flow Iverability R x Antilog (Mcfd)
				GIVIL.	1 c   w														
						_													
Open Flor	w				Mcfd @ 14.	65 psia			Deliverab	ility					Mefe	(@	14.65 ps	ia	
		-	•		ehalf of the report is true				•			make that the make th			ort ar	nd 1			- 4.4
	"		,		pro		Recei	vec	OMMISSION			un		// _	-fil)	1	eute	ell	 W_
			Witness			FE	EB 25	<u>.</u> 2	2015						Compa	_			
			For Con	missio	n	CONS	ERVATION WICHITA	N DI . KS	VISION					Che	cked b	У			

penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  In pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named.
ng pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named.
if my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named.
a one-year exemption from open flow testing for the Northrup 2-33
nds that said well:
ne)
s a coalbed methane producer
s cycled on plunger lift due to water
s a source of natural gas for injection into an oil reservoir undergoing ER
s on vacuum at the present time; KCC approval Docket No
s not capable of producing at a daily rate in excess of 250 mcf/D
o supply to the best of my ability any and all supporting documents deemed by Commission ocorroborate this claim for exemption from testing.
Toolioporate this diam for exemption from testing.
<del></del>
Received PORATION COMMISSION  3 2 5 2015  REVATION DIVISION VICHITA, 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.

W363 Northrup 2-33 West St. Francis St. Francis Pumping Unit/Elec June-14

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
6/1/2014	53	66	1	4.5	8	0		3
6/2/2014	68	81	1	4.5	8	0	•	7
6/3/2014	57	70	12	2 4.5	8	0	•	5
6/4/2014	82	95	12	2 4.5	8	0	1	7
6/5/2014	43	56	10	4.5	8	0	1	3
6/6/2014	47	60	10	4.5	4	0	) 4	4
6/7/2014	162	175	10	4.5	0	9	)	8
6/8/2014	172	185		2 4.5	0	24	. (	)
6/9/2014	177	190	(	4.5	0	24	. (	)
6/10/2014	180	193	(	4.5	0	24	. (	)
6/11/2014	181	194	(	)		24		
6/12/2014	183	196	(	)		24	,	
6/13/2014	186	199	(	)		24	·	
6/14/2014	187	200	(	)		24		
6/15/2014	187	200	(	)		24		
6/16/2014	189	202	(	)		24		
6/17/2014	189	202	(	)		24		
6/18/2014	190	203	(	)		24		
6/19/2014	190		(	)		24		
6/20/2014	190	203	(	)		24		
6/21/2014	190			)		24		•
6/22/2014	190	203	(	)		24		
6/23/2014	115	128	(	)		5		
6/24/2014	115					0	1	
6/25/2014	102	115	(	)		0	1	
6/26/2014	98		(			0		
6/27/2014	81		(			0		opened at well flowing gas
6/28/2014	50	63	2		4			started pumping unit
6/29/2014	49	62	13	4.5	2			bridle come off
6/30/2014	48		13		0		) (	)
7/1/2014						0		

Total 126 48

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W363 Northrup 2-33 West St. Francis St. Francis Pumping Unit/Elec July-14

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2014	5	0 63	11	4.5	8		8	
7/2/2014	4	9 62	. 10	4.5	8	C	7	†
7/3/2014	4	9 62	. 10	4.5	8	0	8	}
7/4/2014	4	9 62	. 10	4.5	8	C	6	j
7/5/2014	5	2 65	10	4.5	8	0	1 7	,
7/6/2014	5	2 65	10	4.5	8	(	) 8	}
7/7/2014	6	5 78	10	4.5	8	(	7	•
7/8/2014	5	3 66	. 9	4.5	8	0	•	;
7/9/2014	5	3 66	9	4.5	8	0	7	,
7/10/2014	5	4 67	9	4.5	8	C	8	}
7/11/2014	5	6 69	9	4.5	8	(	7	1
7/12/2014	5	7 70	10	4.5	8	(	) 6	5
7/13/2014	5	8 71	10	4.5	8	(	7	,
7/14/2014	6	8 81	10	4.5	8	C	8	<b>\</b>
7/15/2014	4	8 61	10	4,5	8	C	1 7	,
7/16/2014	4	8 61	10	4.5	8	C	) 6	j
7/17/2014	4	7 60	9	4.5	8	(	) 8	bucket test 7 min and greased
7/18/2014	4	7 60	9	4.5	8	(	) 8	pu off, disposal down
7/19/2014	4	6 59	9	4.5	8	0	8	
7/20/2014	4	6 59	9	4.5	8	(	8	turn on pu
7/21/2014	8	9 102	. 9	4.5	4	. (	) 4	pu off, hfp
7/22/2014	16	5 178	3	4.5	0	22	2 0	)
7/23/2014	7	'8 91	9	4.5	0	7	, (	)
7/24/2014	6	0 73	8	4.5	0	3		)
7/25/2014	4	4 57	8	4.5	4	4		started pumping unit
7/26/2014	4	5 58	8	4.5	8	0	) 8	3
7/27/2014	4	6 59	9	4.5	8	(	) 7	7
7/28/2014	4	0 53	9	4.5	8	(	) 6	5
7/29/2014	3	5 48	8	4.5	8		) 7	7
7/30/2014	3	3 46	9	4.5	8	(	) 8	3
7/31/2014	3	4 47	9	4.5	8	(	) 7	,

Total 282 192

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W363 Northrup 2-33 West St. Francis St. Francis Pumping Unit/Elec August-14

	Casing					HR\$	Water
DATE	PSI	STATIC	MCF	SPM	CYCLE_	DOWN	BBLS
8/1/2014	33	46	9	4.5	8	0	8
8/2/2014	33	46	9	4.5	8	0	
8/3/2014	33	46	9	4.5	8	0	8
8/4/2014	48	61	9	4.5	8	0	9
8/5/2014	49	62	8	4.5	8	0	8
8/6/2014	50	63	9	4.5	8	0	7
8/7/2014	50	63	9	4.5	8	0	8
8/8/2014	51	64	10	4.5	8	0	9
8/9/2014	51	64	10	4.5	8	0	8
8/10/2014	54	67	7	4.5	8		
8/11/2014	50	63	8	4.5			8
8/12/2014	40	53	8	4.5	8	0	
8/13/2014	33	46	8	4.5	8	` <b>0</b>	
8/14/2014	32	45	8	4.5	8	0	7
8/15/2014	44	57	6	4.5	8		
8/16/2014	31	44	8	4.5	8	0	4
8/17/2014	31	44	8	4.5	8	0	5
8/18/2014	31	44	8	4.5	8	0	
8/19/2014	45	58	8	4.5	8	2	7
8/20/2014	40	53	8	4.5	8	0	6
8/21/2014	32	45	8	4.5	8	0	5
8/22/2014	59	72	8	4.5	8	0	6
8/23/2014	45	58	8	4.5	8	0	
8/24/2014	48	61	8	4.5	8	0	7
8/25/2014	65	78	8	4.5	8	0	8
8/26/2014	50	63	8	4.5	8	0	
8/27/2014	53	66	8	4.5			
8/28/2014	47	60	8	4.5	4		
8/29/2014	45	58	8	4.5	4	5	
8/30/2014	45	58	8	4.5	8		
8/31/2014	60	73	8	4,5	8	0	7

Total 255 206

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