KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes		BSL		(See Instruc	tions on Rev	erse Side))					
	en Flow	Test Date: API No. 15											
	eliverabilty ———	<u>'</u>		6/2/201	5			181	-20567-0 /	00			
Rosewo		ou <u>rces,</u> Inc.				Lease Ihrig, G	_	_	_	32-20	Well Nu	mber	
County Sherman	n	Loca SWNE		Section 20		TWP 7S		RNG (E/ 39W	W)		Acres A 80	attributed	
Field Goodlan	 nd	<u>-</u>		Reservoir Niobrara		<u>_</u> -			nering Conn Systems In				
Completi 8/24/201		- _		Plug Bac 1211'	k Total Dept	th		Packer S	et at				
Casing S 4 1/2"	lize	Weig 10.5		Internal Diameter Set at 4.000 1211'				Perfor	ations	To 1088'	To 1088'		
Tubing S	ize	Weig	ht	Internal I	Internal Diameter Set at				rations	То			
		Describe)		Type Flui Dry Ga	d Production	n		Pump Un Flowin	it or Traveling	Plunger? Yes	No		
	g Thru (A	nnulus / Tubir			arbon Dioxi	de		% Nitroge	-		avity - G	, i _o	
Vertical D					Prass	sure Taps				.6	Run) (Pr	over) Size	
1240'	, opan(11)				Flan	•				2"	rwny (r	overy Size	
Pressure	Buildup:									15 _{at} 3:10	(AM) (PM)	
Well on L	ine:	Started 6-2	2	0 15 at 3	:10	(AM)(PM)	Taken 6-	3	20	15 at 4:00	(AM)(PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shut	in_24	Hours	
Static / Dynamic	Dynamic Size Prover Pressure		Pressure Differential ure In	Flowing Well Head Temperature		Casing Wellhead Pressure (P _w) or (P _c) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _f) or (P _o)		Duration (Hours)	1 '	i Produced Barrels)	
Property	(inches)	psig (Pm)	Inches H ₂ 0	<u> </u>	t 	psig	psia	psig	psia		<u> </u>		
Shut-In		 				 	50.4	 	 		 		
Flow		<u> </u>	_L				33.4		<u> </u>		0		
		Circle one:	T	-	FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiecient (F _b)(F _p) Mcfd		Meter or Prover Pressure psia	Press Extension P _m x h	Fact	Gravity Factor F		Deviation Factor F _{pv}		Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
	-					<u>F_{II}</u> _	f		91				
	·			(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _a)	²= 0.20	— <u>—</u> ——	
(P _c)² =	<u>:</u>	(P _w) ² =		P _d = .	<u></u> ,º	6 (P	<u>- 14.4) +</u>	14.4 =	:-	(P _d)	² =	<u> </u>	
(P _e) ² - (F		(P _c)²- (P _w)²	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2, and divide by:	P _c ² -P _w ²	Stope Assi	sure Curve e = "n" or~ gned rd Slope	nxL	og [Antilog	Deli ^s Equals	en Flow verability R x Antilog Mcfd)	
				-7'	<u>- </u>	Sianda					 - `		
Open Flor	w		Mcfd @ 14.6	65 psia		Deliverabil	ity			Mcfd @ 14.65 ps	ia		
	-	•				•			•	rt and that he ha	ıs knowl	edge of	
the facts si	tated ther	ein, and that s	aid report is true	and correct	. Executed	this the 22		day of De	ecember		, 2	0 15	
		Witness (if any)	—	CC-WI	CHITA		Za	all	Mont	ly		
					4PR-0-7	2016 -				Сотрапу	_ _		
		For Comm	nission	ı	454 01	LUIU			Che	ked by			

RECEIVED

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.	to request
and that the foregoing pressure information and statements contained on this application form a correct to the best of my knowledge and belief based upon available production summaries and lead of equipment installation and/or upon type of completion or upon use being made of the gas well her I hereby request a one-year exemption from open flow testing for the	

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.

W2727

WELL ID

Ihrig 32-20

LEASE NAME

North Goodland FIELD

Goodland

AREA

None

EQUIPMENT

June-15

FloBoss

DATE

	Line	Casing					HRS	REMARKS
DATE	PSI	PSI_		STATIC	MCF		DOWN	(Maximum length 110 characters)
6/1/2015		36	36	49		0		24 chem pump 1sec duration 4 times/m
6/2/2015		36	36	49		0	2	24
6/3/2015		31	31	44		68		0 started chemical pump, 10ppm h2s
6/4/2015		31	31	44		59		0 1.2 ppm, opened to 83mcf
6/5/2015		19	19	32		78		0 1.0ppm, opened to 118mcf
6/6/2015		23	23	36		101		0
6/7/2015		21	21	34		95		0
6/8/2015		21	21	34		93		0 1.3 ppm h2s
6/9/2015		20	20	33		91		0
6/10/2015		20	20	33		91		0 pump running, but not moving chem
6/11/2015		19	19	32		91		0
6/12/2015		19	19	32		91		0
6/13/2015		19	19	32		90		4
6/14/2015		19	19	32		90		0
6/15/2015		19	19	32		91		0
6/16/2015		19	19	32		91		0
6/17/2015		19	19	32		91		0
6/18/2015		19	19	32		92		0 2ppm h2s
6/19/2015		19	19	32		91		0
6/20/2015		19	19	32		91		1
6/21/2015		19	19	32		91		0
6/22/2015		19	19	32		91		0
6/23/2015		19	19	32		91		0
6/24/2015		19	19	32		89		0 bp
6/25/2015		19	19	32		89		2
6/26/2015		19	19	32		91		0
6/27/2015		19	19	32		93		0
6/28/2015		19	19	32		93		0
6/29/2015		19	19	32		95		0
6/30/2015		20	20	33		97		0
7/1/2015		-13						0

Total

2505

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W2727 WELL ID LEASE NAME

North Goodland

FIELD

Goodland

AREA

None

EQUIPMENT

July-14

DATE

FloBoss

FloBoss				<u> </u>			
	Line	Casing				HRS	REMARKS
DATE	PSI	PSI		STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014		20	20	33	9'	7 (chem pump 4 cycles pm, 1 second d
7/2/2014		20	20	33	9'	7 (7ppm h2s, pump moving 8qts instead
7/3/2014		20	20	33	90	5 ()
7/4/2014		20	20	33	90	5 ()
7/5/2014		20	20	33	90	5 ()
7/6/2014		20	20	33	90	5 ()
7/7/2014		20	20	33	90	5 ()
7/8/2014		19	19	32	94	4 ()
7/9/2014		19	19	32	94	4 (lppm h2s
7/10/2014		19	19	32	9:	5 ()
7/11/2014		20	20	33	92	2 ()
7/12/2014		20	20	33	92	2 ()
7/13/2014		20	20	33	92	2 ()
7/14/2014		20	20	33	92	2 ()
7/15/2014		20	20	33	8	7	5 38ppm, fixed ck valve on pump
7/16/2014		20	20	33	.9	1) 20ppm h2s
7/17/2014		20	20	33	90) ()
7/18/2014		20	20	33	90) ()
7/19/2014		20	20	33	90) ()
7/20/2014		20	20	33	90	0)
7/21/2014		20	20	33	91	C	I
7/22/2014		20	20	33	9	0	0 0ppm h2s
7/23/2014		20	20	33	8	7 :	3
7/24/2014		20	20	33	90) ()
7/25/2014		21	21	34	9	1)
7/26/2014		21	21	34	9	1)
7/27/2014		21	21	34	9	1)
7/28/2014		19	19	32	9	1	9
7/29/2014		19	19	32	9	1	0 1.2ppm h2s
7/30/2014		19	19	32	9	1	0
7/31/2014		19	19	32	9	1_	1

Total

2857

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W2727

WELL ID

ihrig 32-20

LEASE NAME

North Goodland

FIELD

Goodland

AREA

None

EQUIPMENT

August-14

DATE

FloBoss

FloBoss									γ
	Line	Casing					HRS		REMARKS
DATE	PSI	PSI		STATIC	MCF		DOWN		(Maximum length 110 characters)
8/1/2014		5	19	32		89		2	chem pump 4 cycles pm, 1 second du
8/2/2014		5	19	32		89		0	7ppm h2s, pump moving 8qts instead
8/3/2014		5	19	32		89		0	
8/4/2014		5	19	32		91		0	
8/5/2014		5	19	32		91		0	
8/6/2014		5	19	32		91		0	2.8ppm h2s
8/7/2014		5	22	35		87		0	90ppm h2s, Terratech treated well
8/8/2014		5	27	40		0		0	
8/9/2014		5	32	45		0		0	
8/10/2014		5	34	47		0		0	opened to 30mcf, 1.5ppm h2s 7 hour
8/11/2014		8	32	45		29		0	60 ppm h2s at well
8/12/2014		8	26	39		77		0	80 ppm h2s at well, 2.5ppm at meter
8/13/2014		6	22	35		89		0	90 ppm at well
8/14/2014		5	22	35		87		0	90 ppm at well
8/15/2014		5	21	34		86		0	
8/16/2014		5	21	34		85		0	
8/17/2014		5	21	34		85		0	105ppm h2s at well, 2.5 at meter
8/18/2014		5	21	34		85		0	
8/19/2014		5	21	34		85		0	
8/20/2014		5	21	34		85		0	
8/21/2014		5	21	34		85		0	
8/22/2014		5	20	33		83		0	
8/23/2014		5	20	33		83		0	
8/24/2014		5	20	33		83		0	
8/25/2014		5	20	33		83		0	
8/26/2014		5	20	33		83		0	
8/27/2014		5	20	33		83		0	
8/28/2014		5	20	33		83		0	1
8/29/2014		5	20	33		83		0	
8/30/2014		5	20	33		83		0	
8/31/2014		5	20	33		83		0	·

Total

2335

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