## Dondeine-C-Cottet1-Rapoport-Wg1-WOB-DNM

The Second Control (0, 1)		А	В	С	D	Е	F	G
Proceedings of the Continued of the Continued of Contin								
The matter large that (6, 1)  One of large of la								
In the proof of the control of the								
Total legic = 0 => bocal is choice.   Flooral legic = 1 => choice is writing look capt.   flooral legic = 1 => choice is writing look capt.   flooral legic = 1 => choice is writing look capt.   flooral legic = 1 => choice   flooral legic = 1 =>								
1   1   1   1   1   1   1   1   1   1		hosal logic	2	if boral logic = 0 => boral is shoker if boral logic = 1 => shoke in wing joint sa	ls: if bosal logic =	2 ->	no hocal	
Security (1.5) (Formally chole length)   74	9	bocai logic		in bocar rogic = 0 => bocar is crioke, ii bocar rogic = 1 =>crioke iii wirig joint ca	ic, ii bocai logic =	2 - /	no bocar	
1.2								
1. Choke born daw. 1. Secure implif (1, 0) (formally chaic length) 2. Secure implif (2, 0) (formally chaic length) 2. Secure implif (3, 0) (formally chaic length) 2. Secure implif (4, 0) (formally chaic length) 2. Secure day (formally cha	12							
1.5 secure length (1, 0) (formulty choice length)   74.   logs   1; length of choice from top of wing gamt; logs (2) length of receiver (some as string length)   75.			9.8		 ning of bore at bo	ttom o	r receiver	
Section insection	15	receiver length (1, 0) (formally choke length)	74	logic 1; length of choke from top of wing joint; logic 0; length of receiver (same				
13   12   12   13   13   13   13   13								
20   10   20   20   20   20   20   20	18				-1-1			
22   Bore dis. Bottom of wing joint				laist top or wing to where tone hole enters bore [not at the center or the tone h	biej			
23 Sero dia. Sottom of wing joint   16.7   Need to Average, usaly voir; Dordeine-C-Cottet ves		wj d	390					
15 Bore die. top of boot innit farge side   25.6								
27   III. Boot Lengths				Dondeine-C-Cottet OOR				
28 by logic   1	26		23.0					
12 bir   164   1			1		oved			
32   by a   209   32   bytotal [Needed for both boot logics]   470   total length of boot, include socket, along the small bore side   170   total length of boot, include socket, along there some side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boot, include socket, along there side   170   total length of boots   170   total length of boot, along there side   170   total length of boots	29	bj c	106					
32 jspictoral (Needed for both boot logics) 470 total length of boot, include socket, along the small bore side 32 blotdar Similar Reeded for both boot logics) 470 total length of boot, include socket, along targe bore side 33 blotdar Similar Reeded for both boot logics) 470 total length of boot, include socket, along targe bore side 33 blotdar Similar Reeded for both boot logics 1 471 hook length along bore => ble-septum length = boot - septum <= calc the septum 471 bloots bottom. Needed for both boot logics) 472 hook length along a bore => ble-septum length = boot - septum <= calc the septum 472 bloots bottom. (Needed for both boot logics) 473 hook length along a bore => ble-septum length = boot - septum <= calc the septum 473 bloots bottom. (Needed for both boot logics) 474 use hook, dist of bore (sind so siste blue Similar Miller Beat Hook of stack) 474 use hook, dist of bore (sind so siste blue Similar Miller Beat Hook of stack) 475 use hook, dist of bore (sind so siste blue Similar Miller Beat Hook of stack) 475 use hook, dist of bore (sind so siste blue Similar Miller Beat Hook of stack) 475 use hook, dist of bore (sind so siste blue Similar Miller Beat Hook of siste blue Similar Miller Beat Hook of siste blue Hook of siste hook of sis								
34 bitotal   Needed for both boot logics   470   0   plus thickness, large bore side	32			total longth of hoot, include codest, along the email have aid-				
32   32   33   36   37   38   39   30   31   32   32   33   34   34   35   35   35   35   35	34	bjltotal [Needed for both boot logics]	470	total length of boot, include socket, along large bore side				
38   Boots   Reeded for both boot logics   421   hook length along s bore => bis-septum length = boot - septum <= calc the septum   39   boot   Reeded for both boot logics   421   hook length along   bore => bis-septum length = boot - septum <= calc the septum   421   boot   bottom   (Needed for both boot logics   24   use hook, dist of bore   same as boots bot except tenon depth will be different   42   boot   bottom   (Needed for both boot logics   24   use hook, dist of bore   same as boots bot except tenon depth will be different   43   44   destreme bore   (Needed for logic 1 only   44   destreme bore   (Needed for logic 2 only   44   destreme bore   (Needed for logic 2 only   44   destreme bore   (Needed for logic 2 only   45   destreme bore   (Needed for logic 2 only   45   destreme bore   (Needed for logic 2 only   46   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very bottom of boot to septum   (Septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length = do not imput value   45   dest. From very   (Septum = septum length								
139 boott   Needed for both boot logics   421   hook length along   bore => bij-septum length = boot - septum < = catc the septum   410	37							
14								
42   Doot   Dottom   (Needed for both boot logics   24   Use hook, dist of bore   Same as boots bot except tenon depth will be different   43   44   44   54   54   54   54   54	40							
44 extreme bore [Needed for logic 1 only] 45 esptum length exp [Need for logic 0 only] 46 septum length exp [Need for logic 0 only] 47 septum length exp [Need for logic 0 only] 49 dist. From very bottom of boot to septum [point between the large and small bore] 47 septum length can be imput value 49 dist. From very bottom of boot to septum [point between the large and small bore] 49 dist. From very bottom of boot to septum [point between the large and small bore] 49 dist. From very bottom of boot to septum [point between the large and small bore] 49 dist. From very bottom of boot to septum [point between the large and small bore] 49 dist. From very bottom of boot to septum [point between the large and small bore] 40 do not imput value 41 dist. From very bottom of boot to septum [point between the large and small bore] 41 dist. From very bottom of boot to septum [point between the large and small bore] 42 dist. From very bottom of boot to septum [point between the large and small bore] 43 dist. From very bottom of boot to septum [point between the large and small bore] 44 dist. From very bottom of boot to septum [point between the large and small bore] 45 dist. From very bottom of boot to septum [point between the large and small bore] 46 dist. From very bottom of boot to septum [point between the large and small bore] 47 do not imput value 48 dist. From very bottom of boot to septum [point between the large and small bore] 48 dist. From very bottom of boot to septum length septim septum cid not not imput value 49 dist. From very bottom of boot to septum length septim septum cid not not imput value 40 dist. From very bottom of boot to septum length septim septum cid not not imput value 41 dist. From very bottom of boot to septum length septim septum cid not not imput value 41 dist. From very bottom of boot to septum length septim septum cid not not imput value 42 dist. From very bottom of boot to septum length septim septum cid not not imput value 43 dist. From very bottom of boot to septum length septim septum								
46 septum length ear. Q not miput value 47 septum length acl - do not imput value 48 septum length - do not imput value 49   f b   going = 0 => septum = septum exp; if b   logic = 1 => septum = septum	43							
47   septum length calc - do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   48   septum length - do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   49   dist. From very bottom of boot to spetum (bij - boott)   do not imput value   49   dist. From very bottom of boot (socket) to where dis sep   Imesure if cork can be removed, for Logic 0   53 septum width kerp   New for the property of t		sentum length eyn [Need for logic () only]	44	dist_from very bottom of boot to sentum [noint between the large and small by	rel			
49	47	septum length calc - do not imput value	49	dist. From very bottom of boot to spetum [bjl - bootl]	do not imput val			
So bore dia sept   Needed for both boot logics   18.2   septum small bore dia (assume = bore dia sept   Meeded for both boot logics   19.8   septum in arge bore dia (assume = bore dia sept)   mesure if cork can be removed; for Logic 0   septum width; direct measurement if remove plug   Septum width exp plug   Septum width exp plug   Septum width; direct measurement if remove plug   Septum width exp plug   Septum width; direct measurement if remove plug   Septum width exp		septum length - do not imput value	49	if bj logic = 0 => septum = septum exp; if bj logic = 1 => septum = septum c	do not imput val	ue		
S2 sep width exp [Need for logic 0 only]	50				1.6.1			
See width - do not imput value   6.5   if by logic = 0 => sep width = sep wi					ea; for Logic U]			
S5								
148   dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole]	55					ue		
S8								
60	58							
17.	60							
17.   17.								
65   6.9   6.9   6.4   6.4   6.4   6.5	63							
66   d		<u>f2</u> e		Dondeine-C-Cottet Plastic in tone hole				
Company   Comp	66	d						
1		c	7.2	Dondeine-C-Cottet Plastic in tone hole				
71	69	b						
T3	71	9	9.8					
T4   e1		f1	9	Dondeine-C-Cottet Plastic in tone hole				
Total	74							
77	76					.]		
Top	77							
81         82         V. Tone Hole Depths         83         12         38.6         84         84         84         85         85         86         86         86         86         87         87         86.5         86         87         86.5         86.5         86.5         87         86.5 <t< th=""><th>79</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	79							
82     V. Tone Hole Depths       83     f2       84     e       85     d       85     d       86     e       87     c       26.5     e								
84 e     33.3       85 d     37.3       86 e     6       87 c     26.5	82							
85 d 37.3 86 87 c 26.5								
87 c 26.5	85							
		c	26.5					
	88	b	23.1					
89 a 22 90 g 16.8 meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle]		g		meas along bot tone hole wall [north wall, toward reed,tone hole usually at and	jle]			
91 f1 17.1 meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] 92	91	f1						
93 e1 6.1 e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest dist]		e1	6.1	e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest d	list]			

## Dondeine-C-Cottet1-Rapoport-Wg1-WOB-DNM

_	^	-		5			
94	d1	7.2	C d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest or	D liet1	Е	г	G
95	c1	6.2	c1 tone hole depth; meas east/west with deapth gauge [at center, or shortest of tone hole depth; meas east/west with deapth gauge [at center, or shortest of the content of				
96	<u></u>	0.2	Let cone note deput, meas east, west with deapth gauge [at center, 01 shortest t	nocj			
97							
98							
99							
100							
	VI. Long Joint		Dondeine-C-Cottet not a table along long joint				
	lg length	636	total length of long joint; yes 600 mm				
	Ig_tenon_bot	46.8	length bottom tenon on long joint [tenon going into boot joint]				
	lj_bot_bore	23.2	long joint bottom tenon bore diameter [tenon going into boot joint]				
105		33.1	long joint top tenon bore diameter [tenon going into bell]				
106		39.8	length top tenon on long joint [tenon going into bell]				
		54	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]				
		274	dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]				
109	c1 distance	516	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]				
110			,				
111							
112							
113							
114							
115	VII. Bore diameters at Tone Holes						
116	f2	12.1					
117	e	13.1					
118	d	13.7					
119							
120	c	16.6					
121	b	17.1					
122	a	17.7					
123	g	20.2	Dondeine-C-Cottet OOR				
124	f1	23.8					
125							
126	e1	24	e1 tone hole bore diameter on long joint				
127	d1	27.8	d1 tone hole bore diameter on long joint				
128	c1	31.3	c1 tone hole bore diameter on long joint				
129							
130							
131							
132							
133							
134	VIII. Bell		Dondeine-C-Cottet no tone hole in the bell				
	bell logic	0	If bell_logic = 0 => normal conical bore; if bell_logic = 1 => inverted concial b	ore			
	bell_length (0, 1, 2)	345	total length of bell [lines 141 + 144 = line 136]				
137	bell_bot_bore (0, 1, 2)	33.2	dia bore at the bottom of bell [end with socket]				
138	bell_top_bore 0, (1, 0, 2)	33.5	dia bore at the top of bell [where low Bb exits]				
139	bell_center_bore (only for logic 2)		dia bore at max center of expansion				
140	bell_wall (only for logic 2)		bell wall thickness, Just for David	0			
141	bell_bot_bore_expansion (only for logic 2)		dist of bottom to maxium of expansion [including bell socket length,if bell logic=	=U =>100]			
142	Outside diameter of wood at expansion	40.0	Just for David				
143	bell_tenon (0, 1, 0, 2)	40.6	bell socket length				
	bell_expansion_length (only for logic 2)		distance of maxium expansion to top of bell [where Bb exits]				
145							
146 147							
147	IX. PITCH						
148	pitch	392	input the historical pitch of the bassoon, must input value, best guess				
150	freq_init	392	Initial frequency range variable				
151	Delta frequency	2	frequency increment parameter				
152	Number of frequencies	60	number of frequencies to scan for min chi sq				
153	Frequency adjust	1.05	frequency adjustment parameter				
	X. Title	1.03	magaziney adjustment parameter				
155	title		Bassoon Calculation: Dondeine-C-Cottet1-Rapoport-Wg1-WOB-DNM				
156							
157			Notes on long joint bore: Dondeine-C-Cottet out of round in places				
158			Notes on boot joint bore: Dondeine-C-Cottet small side very out of round				
	XI. Bore Diameter Locations		Notes on wing joint bore: Dondeine-C-Cottet In good shape				
160		22	Number of diameters				
161		9.8	Initial bore diameter [do not include in line 160 counting]				
162		452	dist1; measured from the bottom of the wing joint- 10mm				1
163		408	dist2; measured from the bottom of the wing joint- 11mm				1
164		345	dist3; measured from the bottom of the wing joint- 12mm				1
165		242	dist4; measured from the bottom of the wing joint- 13mm				1
166		147	dist5; measured from the bottom of the wing joint- 14mm; OOR				1
167		78	dist6; measured from the bottom of the wing joint- 15mm	Bottom wing jt	16.7		1
168		16	dist7; measured from the bottom of the wing joint- 16mm	top boot small	16.9		1
169					25.6		2
		166	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot large	20.0	T	2
170		166 275	dist9; measured from the top of the bootjoint - small bore side- 18mm				
170 171		166 275 0	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm	sbore dia sep	18.2		3
170 171 172		166 275 0 390	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm	sbore dia sep Ibore dia sep	18.2 19.8		3
170 171 172 173		166 275 0 390 292	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm	sbore dia sep	18.2		3
170 171 172 173 174		166 275 0 390 292 235	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm	sbore dia sep Ibore dia sep	18.2 19.8		3
170 171 172 173 174 175		166 275 0 390 292 235 187	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3
170 171 172 173 174 175 176		166 275 0 390 292 235 187 575	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint- 24mm	sbore dia sep Ibore dia sep	18.2 19.8		3
170 171 172 173 174 175 176 177		166 275 0 390 292 235 187 575 519	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 22mm dist15; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 25mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3
170 171 172 173 174 175 176 177		166 275 0 390 292 235 187 575 519 484	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 21mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 25mm dist17; measured from the top of the long joint- 25mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3 4 4 4
170 171 172 173 174 175 176 177 178		166 275 0 390 292 235 187 575 519 484 412	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 22mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist16; measured from the top of the long joint- 25mm dist17; measured from the top of the long joint- 26mm dist18; measured from the top of the long joint- 27mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3 4 4 4
170 171 172 173 174 175 176 177 178 179 180		166 275 0 390 292 235 187 575 519 484 412 344	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist15; measured from the top of the long joint- 12mm dist16; measured from the top of the long joint- 25mm dist17; measured from the top of the long joint- 25mm dist18; measured from the top of the long joint- 27mm dist19; measured from the top of the long joint- 27mm dist19; measured from the top of the long joint- 28mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3 4 4 4 4
170 171 172 173 174 175 176 177 178 179 180 181		166 275 0 390 292 235 187 575 519 484 412 344 266	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 21mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 25mm dist17; measured from the top of the long joint- 27mm dist18; measured from the top of the long joint- 28mm dist19; measured from the top of the long joint- 28mm dist20; measured from the top of the long joint- 28mm dist20; measured from the top of the long joint- 29mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3 4 4 4 4 4
170 171 172 173 174 175 176 177 178 179 180 181 182		166 275 0 390 292 235 187 575 519 484 412 344 266 192	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 22mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 25mm dist19; measured from the top of the long joint- 27mm dist19; measured from the top of the long joint- 28mm dist19; measured from the top of the long joint- 28mm dist20; measured from the top of the long joint- 29mm dist20; measured from the top of the long joint- 29mm dist21; measured from the top of the long joint- 30mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3 4 4 4 4 4 4 4
170 171 172 173 174 175 176 177 178 179 180 181		166 275 0 390 292 235 187 575 519 484 412 344 266	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - large bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 21mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 25mm dist17; measured from the top of the long joint- 27mm dist18; measured from the top of the long joint- 28mm dist19; measured from the top of the long joint- 28mm dist20; measured from the top of the long joint- 28mm dist20; measured from the top of the long joint- 29mm	sbore dia sep Ibore dia sep Hook Length	18.2 19.8 421		3 3 3 3 4 4 4 4 4