

AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Artillery

Item number: 13/13/26 Part 2

Title: Headquarters, 4th Australian
Divisional Artillery

July 1918



AWM4-13/13/26PART2

186✓

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APPENDIX. 8

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

HEADQUARTERS,
12th July 1918.

SECRET.

Herewith copy No. of "DEFENCE SCHEME",
Divisional Artillery "B" DIVISION, AUSTRALIAN CORPS.

Previous "B" Divisional Artillery Defence Scheme,
issued by 5th Aust. D.A.H.Q. is hereby CANCELLED and
should be destroyed.

ACKNOWLEDGE on form attached.

J. J. Clarys
Major,
Brigade-Major,
4th Aust. Divisional Artillery.

DISTRIBUTION.

- 1 - 9 RIGHT Group.
- 10 - 19 CENTRE "
- 20 - 24 LEFT "
- 25 - 28 SUPERIMPOSED Group.
- 29 RESERVE Brigade.
- 30 D.T.M.O..
- 31 D.A.C..
- (32 R.A. Aust. Corps.
- (33 H.A. Aust. Corps.
- (34 C.B. S.O. Aust. Corps
- (35 "B" Aust. Div. "G"
- for (36 RIGHT Inf. Bde)
- inf. (37 LEFT " ") "B" Div..
- (38 RESERVE " ")
- (39 "A" Aust. D.A.
- (40 "C" " "
- (41 69th R.G.A..
- (42 51st Bde. R.G.A.
- (43 3rd Squadron A.F.C..
- 44 C.R.A..
- 45 B.M..
- 46 Asst/B.M..
- 47 S.C..
- 48 R.O..
- 49 Sig. Off.
- 50
- 51 Diary
- 52
- 53 File
- 54 - 56 Spare.

SECRET. 186 ✓

COPY TO

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

HEADQUARTERS,
12th July 1918.

"B" DIVISIONAL ARTILLERY

DEFENCE SCHEME

AUSTRALIAN CORPS.

REFERENCE
MAPS

... .. Sheets 62 D, N.E., S.E., K.W. & S.W.,
1/20,000.

- DEFENCE SCHEME -

DIVISIONAL ARTILLERY.

"B" DIVISION

AUSTRALIAN CORPS.

I N D E X

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DIAGRAMS "A" and "B".

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.

SECTION I

1. "B" Divisional Boundaries are :-

ON THE SOUTH -- East and West along the grid line through P 20 Central.

ON THE NORTH -- East and West line through J 20 c 0 0 to J 22 d 0 0, thence a line through J 30 c 0 0.

2. INFANTRY :-

The front is held by two Infantry Brigades.:-

The RIGHT Infantry Brigade has three Battalions in the line and one Battalion in Brigade Reserve.

The LEFT Infantry Brigade has two Battalions in the line.

3. BOUNDARY :-

The boundary between Infantry Brigades is an East and West line to I 36 d 0 0 to P 2 d 0 0 - thence Eastward along grid line.

4. INFANTRY LOCATIONS :-

RIGHT Infantry Brigade Headquarters -- O 5 c 6075
LEFT Infantry Brigade Headquarters -- J 19 c 3 6

5. FORWARD LINES :-

TRACING "A" is attached, showing the Front and Support line, also the Intermediate and Reserve Line.

6. REAR LINES OF DEFENCE :-

TRACING "B" is attached, showing rear Lines of Defence which are :-

- AUBIGNY - ANCRE LINE
- BLANGY - LAHOUSOYE LINE
- GLISY - QUERRIEU LINE

7. FLANK DIVISIONS :-

The Division on the RIGHT is "A" Division, AUSTRALIAN CORPS.
" " " " LEFT " "C" " " " "

/SECTION 2

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME (Continued)
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SECTION 2
(ARTILLERY ORGANISATION)

1. Composition of Groups, "B" Divisional covering Artillery, is as follows :-

THE RIGHT GROUP - consists of two Field Artillery Brigades - less one 18-pr. Battery.

THE CENTRE GROUP - consists of two Field Artillery Brigades.

THE LEFT GROUP - consists of one Field Artillery Brigade.

THE SUPERIMPOSED GROUP - consists of one Horse Artillery Brigade.

3. BOUNDARIES :-

One F.A. BRIGADE is also held in RESERVE.

RIGHT GROUP (RIGHT - E. & W. grid line through P 20 Cent.
 (LEFT - E. & W. grid line through P 7 Cent
 to P 8 a 0 0 - P 16 a 0 5 - thence
 due East.

CENTRE GROUP (RIGHT - E. & W. grid line through P 7 Cent
 (to P 8 a 0 0 - P 16 a 0 5 - thence
 due East.
 (LEFT - E. & W. grid line through J 32 Cent.
 to J 34 b 7 0 - along River SOMME
 to Q 1 c 0 7 thence due East.

LEFT GROUP (RIGHT - E. & W. grid line through
 (J 32 Cent. to J 34 b 7 0 - along
 (River SOMME to Q 1 c 0 7 thence
 (due East.
 (LEFT - E. & W. grid line to J 22 d 0 0 -
 thence line through J 30 c 0 0 to
 intersection with front line at
 J 26 b 1030 thence due East.

SUPERIMPOSED GROUP - will be Superimposed over the
 Divisional Front.

4. The RIGHT, LEFT and CENTRE Groups are responsible for the defence; engaging all targets, answering wireless calls and harassing within their zones.

The SUPERIMPOSED Group is responsible for assisting in the defence; will answer all S.O.S. Signals, L.L. and G.F. calls, and carry out harassing fire within the Battery zone, but will NOT answer N.F. Calls.

This Group will prepare to be withdrawn at short notice and used to reinforce any part of the line as occasion demands.

The RESERVE Brigade in Wagon Lines will carry out Mobile Training, and be kept as a Mobile Reserve at the disposal of the Division and be used as occasion demands, by the C.R.A..

All Officers are to make a thorough reconnaissance of the Divisional Area so that Batteries may be brought into action whenever required, without delay.

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME (Continued)

SECTION 2 -- Continued

(ARTILLERY ORGANISATION)4. HEAVY ARTILLERY :-Bombardment Brigade --

- (a) The 69th Brigade R.G.A. (Headquarters -- 0 2 a 9 6) is affiliated to "B" Division for immediate bombardment purposes.
- (b) In the event of Mobile warfare conditions being resumed by the Australian Corps, the 51st Brigade R.G.A. (Headquarters -- C 25 Central) will come under the orders of the 4th Australian Division in place of the 69th Brigade, R.G.A..

Counter-Batteries :-

The Australian Corps Counter-Battery Officer is at G 24 b 2 6.

All hostile shelling is to be immediately reported to Australian Corps C.B., through Group Headquarters or through Headquarters "B" Divisional Artillery - whichever is the quicker.

Information required by the Australian Corps C.B. is as follows :-

- (1) Unit calling.
- (2) The number and calibre of hostile guns or howitzers firing.
- (3) Time of hostile shelling.
- (4) Locality shelled.
- (5) Rate of fire.
- (6) Direction from which the hostile shelling is coming. When possible this should be given in grid line bearings and the place stated from which the bearing is taken, and whether the bearing is Sound or Flash.

The C.B. Officer must be informed of the continuance - or otherwise - of all hostile shelling reported. All hostile shelling will be reported whether it affects the Unit's own area or not.

5. LOCATIONS :-

A statement showing the locations of all Units of "B" Divisional Artillery will be published from time to time.

/SECTION 3

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"B" DIVISIONAL ARTILLERY DEFENCE SCHEME (Contd.)SECTION 3 -- POLICY.
=====1. HARASSING FIRE :-

Vigorous harassing fire will be maintained upon all enemy approaches to his forward areas. This will be carried out under Group orders.

BY DAY it will be observed where possible, the utmost vigilance being maintained and every opportunity taken to inflict casualties upon the enemy and to promptly engage all hostile movement.

BY NIGHT and when observation is impossible it will be directed in accordance with carefully prepared schemes which will be varied daily. A copy of the night programme will be forwarded to D.A.H.Q. and the Infantry Brigade in the Line. (to reach Infantry Brigade Headquarters by 4 p.m. daily).

The D.T.M.O. will in the same way with the T.M. Batteries harass and destroy the enemy trenches and works within range.

The essential principle of harassing fire should be to apply with vigour to the enemy that nature and method of fire which would be most injurious and demoralising if applied to ourselves.

2. AMMUNITION EXPENDITURE.

Ammunition allotment will be notified from D.A.H.Q. from time to time. A plentiful supply of Chemical Shell is available and every effort should be made to take advantage of all occasions when this class of shell can be used.

3. RELIEF OF PERSONNEL :-

The Batteries, as far as possible, will be organised into two reliefs, each relief being sufficient to maintain the service of the Battery and to allow for slight casualties. Not more than one relief should be kept at the Battery position. The second should be within easy reach of the Battery.

4. PROTECTION :-

The provision of shell and gas proof dugouts for Officers and men at O.Ps., Command Posts and Battery positions is to be proceeded with. All precautions will be taken for protection against bombing at gun positions, rest positions and wagon lines. Labour will normally be found by Batteries, but assistance will be provided as required by the 4th Australian Divisional Engineers.

5. FORWARD WAGON LINES will be selected and clearly marked with a notice board

" RESERVED FOR .. BTY. FORWARD W.L. "

These Wagon Lines need not necessarily be occupied whilst main wagon lines are situated as at present within reasonable distance with good approaches to Battery positions.

"B" DIVISIONAL ARTILLERY - DEFENCE SCHEME

SECTION 4 -- S.O.S.

APPENDIX 8

S.O.S. LINE :-

1. The S.O.S. Line covering the Divisional Front is

P 21 b 4000 - P 16 c 5000 - P 17 a 0050 - P 11 a 4000 -
 P 11 b 3000 - P 6 c 2597 - P 6 a 7370 - J 36 c 9540
 J 36 b 6015

RESPONSIBILITY :-

2. The RIGHT, CENTRE and LEFT Groups will cover the S.O.S. line within Group Zones. Howitzers will be allotted definite objectives 200 yards beyond the 18-pr. S.O.S. line.

The SUPERIMPOSED GROUP will allot one Battery to each of the above Group Zones and cover the Group S.O.S. line.

3. THE SIGNAL :-

The S.O.S. Signal is a coloured rocket or rifle grenade the color being varied periodically.

4. In foggy weather when there is a doubt of the possibility of S.O.S. Signals being seen, a heavy hostile bombardment of the front will be treated as an S.O.S. Signal and fire will be opened opposite the front affected, by the Group Commanders' orders.

5. LOCATION OF S.O.S. :-

All Batteries will maintain an S.O.S. sentry whose duty it is to watch for signals from the vicinity of Battery position.

Pointers showing Divisional and Inter Group boundaries at their intersection with the front line will be provided at each Battery.

6. PROCEDURE :-

On receipt of an S.O.S. signal or message, fire will be opened at once at the following rates on the S.O.S. barrage lines and Howitzer objectives :-

<u>First 8 minutes</u>	-- 4 rds. per gun or How. per minute.
<u>Next 7 minutes</u>	-- 3 " " " " " " " "

AMMUNITION :- 18-pr. 60% A 40% AX.
 4.5 How. 106 fuze when available.

Fire will cease after 15 minutes unless the S.O.S. Signal is repeated when the programme will be at once started afresh as for first 8 minutes.

The above provisions are not to be taken as limiting either Group or Battery Commanders from developing the full fire power of their Batteries in the event of their knowledge of the situation demanding it.

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APPENDIX.

Page 6.

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME (Continued)

SECTION 4 -- S.O.S. (Contd.)

7. CONFIRMATION OF S.O.S. SIGNAL :-

If an S.O.S. call is received by Signal it will be confirmed by wire as soon as possible. If a signal is seen or a S.O.S. message received, all Units from Batteries upwards will inform the corresponding Unit on each flank and then their immediate superior.

All Officers must clearly understand that it is their duty to obtain immediate information as to the situation and to forward timed reports as to the situation to their superior; e.g., Batteries to Groups and Groups to D.A.H.Q.. It is only by this means that the necessary concentration of Artillery can be procured.

8. GAS ALARM :-

In the event of a " G A S " being received the ordinary warnings will be sent, precautions taken and Howitzers turned on to trenches or points whence the gas is being sent.

If S.O.S. is sent later the ordinary S.O.S. procedure will take place.

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"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.

SECTION 5

(LIAISON ARRANGEMENTS.)

LIAISON ARRANGEMENTS :-

1. (a) With INFANTRY BRIGADE Headquarters --

The RIGHT and LEFT Groups will each provide one Officer not below the rank of Captain to act as Liaison Officer with the RIGHT and LEFT Infantry Brigade Headquarters, respectively.

Each Officer will be in direct communication with his own Group Headquarters and both Officers will be in direct communication with the CENTRE Group Headquarters. These Officers will be provided with a map showing the S.O.S. Line of the Divisional Artillery and the zone of each Group covering the Infantry Brigade front.

Their duties will be to advise the Infantry Brigade Commander of the possibilities of Artillery action and to keep the Group Commander informed of the situation and the Infantry requirements as far as the particular Infantry Brigade front is concerned, but will communicate direct with D.A.H.Q. when the requirements are such as to involve more than the particular Infantry Brigade front.

(b) With INFANTRY BATTALION Headquarters --

During the hours of darkness, Liaison will be provided as follows :-

- RIGHT GROUP -- One subaltern with RIGHT Battalion, RIGHT Infantry Brigade.
- CENTRE GROUP -- One Subaltern with LEFT Battalion, RIGHT Infantry Brigade.
One Subaltern with RIGHT Battalion, LEFT Infantry Brigade.
- RIGHT & CENTRE GROUPS -- One Subaltern with CENTRE Battalion, RIGHT Infantry Brigade.
(alternately)
- LEFT GROUP -- One Subaltern with LEFT Battalion, LEFT Infantry Brigade.

These Officers will be provided with a map showing zones and S.O.S., of Batteries covering the Battalion Front and of the Batteries next on the Battalion flanks, in the case of Batteries of this Division. Their duties will be to keep the Group Commander informed of the situation and of all special targets in the immediate front which the Battalion Commander requires engaged.

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"B" DIVISIONAL ARTILLERY DEFENCE SCHEME, (Contd.)

SECTION 6 - COUNTER PREPARATION

1. COUNTER PREPARATION will be ordered from D.A.H.Q. who will normally have received orders from Division or Corps, and will involve the delivery of a maximum of counter Battery work and harassing fire in one stage and a maximum of annihilating fire in another stage. Orders therefore to -

"EFFECT C.P. SCHEME PHASE 1 a "

will mean a maximum of Counter-Battery fire,

"EFFECT C.P. SCHEME PHASE 1 b "

will mean a maximum of harassing fire, and

"EFFECT C.P. SCHEME PHASE 2 "

will mean a maximum of annihilating fire.

(a), COUNTER PREPARATION SCHEME Phase 1 b :-

On receipt of the order "EFFECT C.P. SCHEME Phase 1 b" Groups will concentrate in short bursts of fire on to all known and possible assembly areas in quick succession.

Group Commanders will issue a Table from time to time to all concerned, showing areas to be engaged. Rates of fire will be ordered at the time the Scheme is put into operation and are as follows :-

<u>RATE A</u>	--	60 rounds per gun or How. per hour
<u>RATE B</u>	--	30 " " " " " "
<u>RATE C</u>	--	15 " " " " " "

AMMUNITION :-

<u>18-prs.</u>	:	60% A, 40% A X.
<u>4.5" Hows.</u>	:	100% B X. 106 fuzes. (Gas shell when weather conditions and proximity to our line permit).

(b) COUNTER PREPARATION SCHEME PHASE 2 :-

The Divisional Front is divided into 8 LANES, bounded on the West by a line 100 yards East of the S.O.S. line, called "THE START LINE", and on the North and South in all cases by the East and West grid lines except LANE 8 which will be bounded on the North by the North Div. Boundary.

LANES are numbered from RIGHT to LEFT. For example :-

LANE including	P 22 b	will be	LANE	1.
" "	P 17 c	" "	"	2
" "	(K 31 c & portions of K 31 a	" "	"	8

/LANES are

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME (Continued)

SECTION 6 COUNTER PREPARATION (Continued)

LANES are divided into four Zones each measuring 500 yards from West to East:-

ZONE "A"	will be	START LINE	to	START LINE	+ 500
" " "B"	" "	" "	" "	" "	+1000
" " "C"	" "	" "	" "	" "	+1500
" " "D"	" "	" "	" "	" "	+2000

On receipt of the order

"EFFECT C.P. SCHEME PHASE 2, ZERO HOUR"

Batteries commencing at ZERO HOUR on the START LINE will creep eastward in lifts of 100 yards per two minutes.

This order may be varied in order to place a barrage creeping Eastward or westward in certain lanes or zones; in this case more detailed orders will be sent.

RATE OF FIRE :- 3 rounds per gun per minute. 2 " " how. " "

AMMUNITION :- 18-pr. --- 60% A, 40% A X. 4.5" Hows. - B X. 100% 106 fuzes.

(c) ZERO HOUR will be wired from D.A.H.Q. but in the event of communications being cut, the commencement of a heavy enemy bombardment will be taken to be ZERO HOUR.

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.
(continued)

SECTION 7 - O.Ps..
=====

1. Each Group will man one O.P. by day and night.
Each Battery will man one O.P. by day.
2. LOG BOOKS will be kept at each Group O.P. in which the Officer on duty will enter date, time, enemy movement, targets engaged, any unusual occurrence or points of interest.
A duplicate copy of this report, showing Observer's name, will be forwarded to Group Headquarters daily for inclusion in the INTELLIGENCE RETURN.
3. It is desirable that Artillery and Infantry Observers should work in conjunction.
This will be arranged with the Infantry Brigade Headquarters by Groups whenever possible.

SECTION 8 -- MUTUAL SUPPORT
=====

1. A 50 yards overlap will be maintained in the S.O.S. barrage at the Divisional North and South Boundaries, and between Groups.
2. Groups will be prepared to engage the S.O.S. line of the adjoining Group.
3. Liaison Barrages with Flank Divisional Artilleries consist of barrages on S.O.S. Line opposite our own front, either on the entire front or on Sectors as may be required.

/ SECTION 9.....

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"E" DIVISIONAL ARTILLERY DEFENCE SCHEME
(Continued)

SECTION 9 --- ACTION IN THE EVENT OF IT
BECOMING NECESSARY TO OCCUPY
SUCCESSIVE LINES OF DEFENCE.

1. Should it become necessary to occupy successive lines of defence, normally, orders would be issued from D.A.H.Q..
Should this not be possible owing to the interruption of telephone and other communications, Brigade Commanders will act upon their knowledge of the situation notifying their Group, and D.A. Headquarters at the earliest possible moment of any change in their positions.

In the above event, Brigades will be under the tactical control of Brigade Commanders with a specific task, namely, to delay the enemy to the last possible moment, afford maximum assistance to our Infantry and withdraw Batteries to come into action in successive positions.

2. One Battery per Brigade will cover the withdrawal of the remaining Batteries of the Brigade.
Brigades will keep in close touch with the G.O.C. Infantry Brigade Headquarters through the respective Liaison Officers, sending two orderlies per Brigade to report to the Liaison Officer concerned.

The RIGHT Group will withdraw to the North side of the SOMME by DACURS, Batteries of CENTRE Group by CORBIE.
A list of BRIDGES is given in Section 16.

The RESERVE BRIGADE will be utilised in accordance with SECTION 2, para. 4.

Frontage allotted to Brigades will be as in Section 2 but these instructions are not in any way to interfere with the initiative of Commanders of lower formations at the moment, who will seize every opportunity of inflicting loss on the enemy.

Positions covering the successive lines of defence are shown in SECTION 10, page 12.

3. In the event of a withdrawal, Ammunition Columns will withdraw as follows :-

<u>4th Aust. D.A.C.</u>	--	To G 18 d.
<u>5th Aust. D.A.C. Sect.</u>	--	To G 17 b. (W. of Road ALLONVILLE - Pt CANON.
<u>298th B.A.C.</u>)	---	(G 18 a. West of
<u>189th B.A.C.</u>)		(metal road

Water is available at ALLONVILLE.

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME
(Continued)

SECTION 10

REFERENCE MAP.

Sheet 62 D,
1/20,000.

BATTERY POSITIONS COVERING SUCCESSIVE LINES
OF DEFENCE

LINE OF DEFENCE	BTY	SUPERIMPOSED GROUP		RESERVE BRIGADE	BTY	LEFT GROUP	CENTRE GROUP				RIGHT GROUP							
		BTY	GROUP				BTY	LEFT BDE.	BTY	RIGHT BDE.	BTY	LEFT BDE.	BTY	RIGHT BDE.				
AUBIGNY - ANCRE LINE	A	H 23 d	6080	A	H 23 d	8015	A	H 34 d	3000	A	N 4 c	7070	A	N 11 d	9585	A	N 4 a	2030
	B	H 24 a	8030	B	H 29 b	8090	B	H 34 d	5035	B	N 4 c	8090	B	N 12 a	4540	B	N 4 b	0510
	C	H 23 d	5060	C	H 29 b	9070	C	H 28 d	4040	C	N 4 b	0090	C	N 17 a	5030	C	N 4 b	4545
	D	H 24 a	3010	D	H 24 c	2060	D	H 34 d	4070	D	N 4 a	8050	D	N 17 d	8080	D	N 4 b	2070
BLANGY LAHOUSOYE LINE	A	N 3 d	9055	A	N 2 a	4050	A	H 34 d	3000	A	N 4 c	7070	A	N 9 d	75(2)	A	N 13 b	6530
	B	N 3 d	5090	B	H 32 c	6510	B	H 34 d	5035	B	N 4 c	8090	B	N 8 c	33(4)	B	N 14 c	9070
	C	N 3 c	3095	C	H 32 c	9055	C	H 28 d	4040	C	N 4 b	0090	C	N 7 d	8505	C	N 8 c	4590
	D	M 15 b	7085	D	H 32 c	1080	D	H 34 d	4070	D	N 4 a	8050	D	N 9 d	6030(2)	D	N 13 d	4590(2)
GLISY QUARIEU LINE	A)		A)		A)		A)		A)		A)	
	B)	M 35 b	B)		B)		B)		B)		B)	M 11 b
	C)	& d	C)	G 24 d	C)	G 36 a,	C)	M 5 a &	C)	M 11 b &	C)	& M 12 a
	D)		D)		D)	b & c	D)	M 5 b	D)	M 12 a	D)	

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"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.
(Continued)

SECTION 11
=====

ANTI - TANK DEFENCES AND DEFENCE AGAINST
LOW FLYING AEROPLANES.

1. ANTI-TANK :-

Three 15-pr. B.L.C. and two 6-pr. Hotchkiss guns are in action covering the "B" Divisional Front. These guns are manned by the 4th Aust. Divisional Medium T.M. personnel, except one 15-pr. which is manned by the 11th Aust. F.A. Brigade. 100 rounds H.E. per gun will be kept at gun positions. These guns will not be fired except in the case of an enemy attack, in which case the normal target will be a hostile Tank, but other targets will be engaged if the situation at the moment demands it.

2. LOW-FLYING AEROPLANES :-

Two Lewis guns per Battery will be maintained in action at Battery positions for defence against low flying aeroplanes and they will be so sighted that they can be used in the case of necessity to defend the Battery position from Infantry attack. Cover will be provided for the detachment.

at Battery
for the purpose
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"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.
(Continued)

SECTION 12 -- CO-OPERATION WITH
AEROPLANES.

1. A wireless mast will be erected in each Brigade.
(See S.S. 131).

L.L. CALLS will be answered by all Batteries. A burst of fire will consist of three Battery salvos.

G.F. CALLS will be answered by a Section of all Batteries that can bear on the target.
A burst of fire will consist of three Section Salvos.

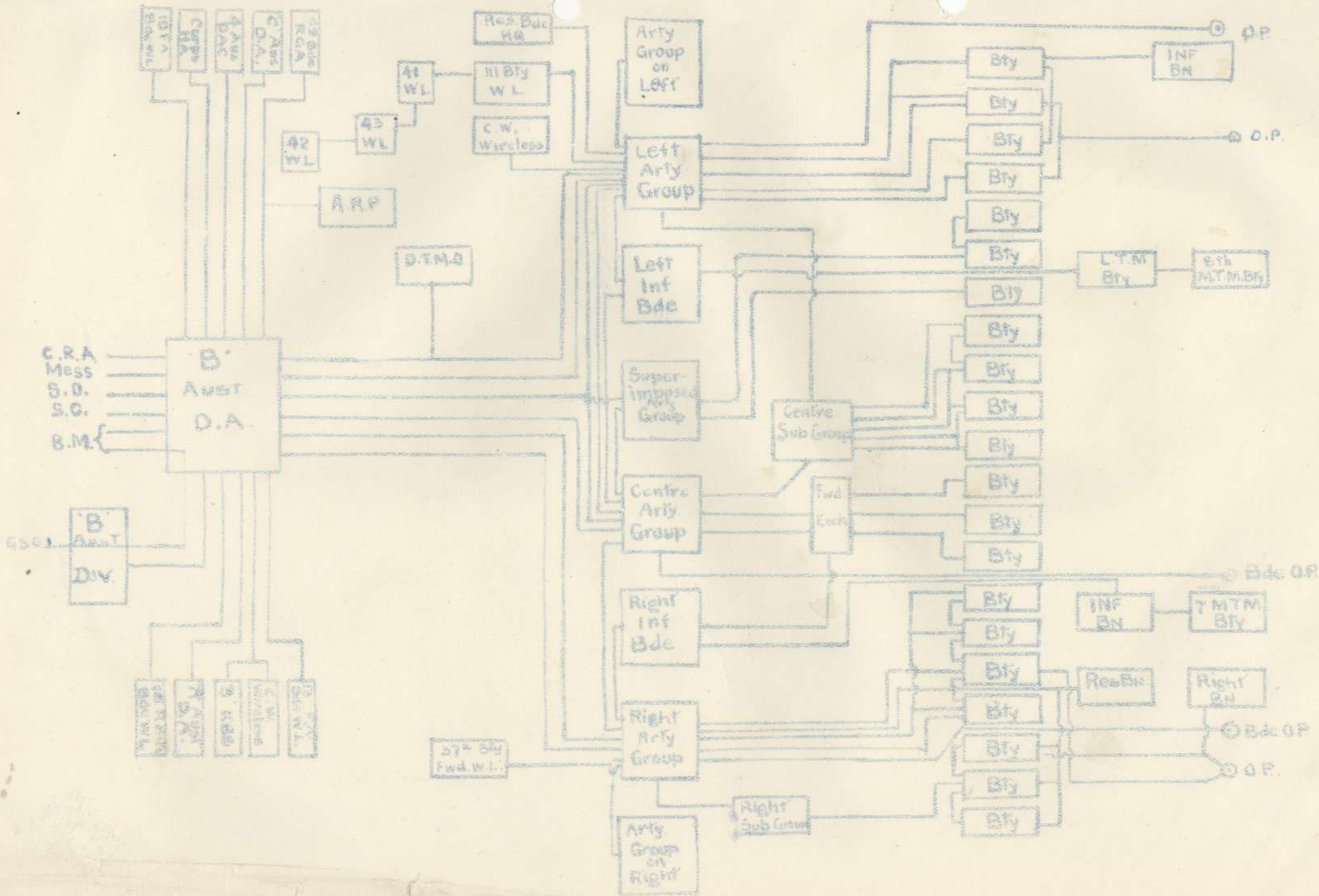
N.F. CALLS will be answered by a Battery to be detailed by Group Headquarters. Not more than 4 salvos will be expended unless the situation and observation received render it desirable to continue firing.
In order to ensure one Battery only answering an N.F. Call the Battery detailed will only engage targets

- (a) within its Group boundaries,
(b) W. of the following dividing line
between Field and Heavy Artillery -

P 23 Central - P 24 a 0 0 -
P 18 a 0 0 - P 18 Central -
P 12 Central - Q 7 a 0 0 -
Q 1 a 0 0 - Q 2 a 0 0 - K 32 c 0 0 -
K 32 d 0 0 - K 26 d 0 0.

SECTION 13 -- COMMUNICATIONS.

Straight line DIAGRAM of COMMUNICATIONS will be found on page 15.



"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.

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PAGE 15.

APPENDIX

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 "B" DIVISIONAL ARTILLERY DEFENCE SCHEME.
 (Continued)

SECTION 14 -- MEDIUM TRENCH MORTARS.

1. D.T.M.O. Headquarters LA NEUVILLE.

2. ORGANISATION :-

The 4th Aust. M.T. Mortars consist of the 7th and 8th Medium Trench Mortar Batteries each of six 6-inch NEWTON Medium Trench Mortars.

3. The 8th M.T.M. Battery is in action with 4 M.T.Ms. and 2 Anti-Tank guns, North of the River SOMME with Battery Headquarters at P 8 a 5050

The 7th M.T.M. Battery is in action with 4 M.T.Ms. and 2 Anti-Tank guns, South of the River SOMME with Battery Headquarters at J 20 c 4660

4. Locations are issued in 4th Aust. Divisional Artillery LOCATION STATEMENTS from time to time.

5. S.O.S. :-

Each mortar is allotted a definite target within enemy forward works. On receipt of an S.O.S. Signal or message, fire will be opened as follows :-

<u>First five minutes</u>	--	2 rds. per mortar per minute.
<u>Next ten minutes</u>	--	1 rd. per mortar per minute.

If the S.O.S. Signal is again received after opening fire, the maximum rate will be reverted to and the above procedure carried out.

6. Destructive and harassing shoots will be carried out daily under the orders of the D.T.M.O., who will obtain all information regarding the front and arrange the daily programme of targets to be engaged accordingly. It will be the duty of the D.T.M.O. to keep in close touch with Artillery Group Headquarters, Infantry Brigade Headquarters and Infantry Battalion Headquarters.

"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.
(Continued).SECTION 15. -- AMMUNITION SUPPLY.

1. Ammunition is taken on charge of Divisional Artillery on arrival at A.R.P..
The supply thereto from Ammunition Railhead (FLESSELLES) is by
- (a) Motor lorry
 - (b) Light Railway.

The amount to be kept at A.R.P. is governed by expenditures and is ordered daily through Corps "Q" by this Office.

(A) The A.R.P. for supply of the Artillery covering "B" Divisional Sector is situated at N 12 a 1 9 (VECQUEMONT).

(B) An auxiliary dump is established at H 22 b 2 8 (CAMP) for the supply of Brigades, etc. mentioned in para. 3.

2. The supply forward of A.R.P. will be done by horse transport.

(A) In the case of Divisional Artillery, Brigades and D.A.C. Commanders will arrange mutually that the D.A.C. render a proportionate assistance in ammunition carrying. D.A.C. will also supply G.S. wagons on demand for the return of empties to A.R.P..

(B) In the case of Army Brigades, the supply and return of empties will be done under arrangements to be made by Os.C. concerned.

3. Brigades etc. will draw from Dumps as under :-

<u>VECQUEMONT</u>	<u>CAMP.</u>
RIGHT Bty. SUPERIMPOSED GROUP	SUPERIMPOSED GROUP (less
RIGHT Brigade RIGHT GROUP	the RIGHT Battery),
LEFT Brigade RIGHT GROUP	RESERVE Brigade.
RIGHT Brigade CENTRE GROUP	LEFT Group.
LEFT BRIGADE CENTRE GROUP	How. Battery, (LEFT
(less How. Battery).	Brigade, CENTRE Group.)

4. The establishment to be kept at guns is as follows :-

Per 18-pr. Gun	--	300 rounds.
4.5" How.	--	250 "
4.5" How. Battery	--	300 " (GAS)
13-pr. Gun	--	200 "

All Echelons filled.

5. EMPTYES :-

Brigade Commanders will ensure that all empties are returned to A.R.Ps. daily.
Empties from A.R.P. will be sent back to Railhead by lorry and Light Railway.

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APPENDIX

"B" DIVISIONAL ARTILLERY DEPENDENCE SCHEME.
(Continued)

SECTION 16

LIST OF BRIDGES AND DESCRIPTIONS.

numbered in Groups and to be known by the name of the Group - together with the numbers of the bridges within the Group, o.g. BUSSY "3".

Sheet 62 D.

Location	Name	Description	
O 1 d 3 0	DAOURS 1	Road/Railway	DAOURS GROUP
O 1 c 2 3	" 3	Road/River	
O 1 c 2 5	" 4	" "	
O 1 a 2 1	" 5	" "	
O 1 a 1 1	" 6	" "	
N 6 d 8 3	" 7	" "	
N 6 d 8 5	" 8	" "	
N 5 d 8 6	" 11	" "	
O 2 b 0 4		DORMANT BRIDGE.	
N 5 b 2 6	BUSSY 1	Track/River	BUSSY GROUP
N 5 b 1 9	" 2	" "	
H 29 c 4 2	" 4	" "	
H 23 b 2 2	QUERRIEU 1	Track/Stream	QUERRIEU GROUP
H 23 b 1 2	" 2	" "	
H 23 a 8 2	" 3	" /River	
H 17 d 0 6	" 4	" "	
H 17 b 0 1	" 5	Road/River	
H 17 b 7 8	" 6	Road/Stream	
H 17 b 6 6	" 6a	Track/Stream	
H 17 b 4 5	" 7	Road/River	
N 11 d 8 2	" 8	Footpath/Stream	
H 11 b 7 2	" 9	Track/River	
H 12 a 4 6	" 9a	Track/Stream	
H 5 d 8 4	" 10	" /River	
J 2 c 5 1	HELLY 1	Track/River	HELLY GROUP
J 7 b 3 5	" 2	Road/River	
J 7 b 2 7	" 3	Road/River	
J 7 Cent.	" 4	Track/River	
I 29 a	BONNAY 1 & 2	Track/River	BONNAY GROUP
I 23 c	" 3 4 5 6	" "	
I 25 d 6 6	" 7	Road/Railway	
I 23 b 6 4	" 8	" /River	
I 23 b 3 7	" 9	" /Stream	
I 18 c	" 10, 11, 12, 13 & 14	Track/River	
O 11 a 0 9	CORBIE 2	Road /Stream	CORBIE GROUP
O 5 c 3 2	" 4	Road/Stream	
O 5 c 4 5	" 6	" "	
O 5 c 7 8	" 8	" /River	
O 5 c 7 8	" 9	" "	

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"B" DIVISIONAL ARTILLERY DEFENCE SCHEME. (Continued) APPENDIX 19.

LIST OF BRIDGES AND DESCRIPTIONS. (Continued)

Location	Name	Description	
N 17 c 6 3	BLANGY 1	Pontoon/River	BLANCY GROUP
N 16 c 6 2	" 2	" / Stream	
N 15 b 7 4	" 3	Road/River	
N 15 d 2 4	" 4	Towpath/Stream	
N 15 c 8 4	" 5	" / Spillway	
N 15 c 7 4	" 6	Trestle/Lock	
N 15 c 5 4	" 7	Tow-path/Stream	
N 15 c 2 4	" 8	Road/River	
N 15 c 1 3	" 9	Trestle/Stream.	



APPENDIX

TRAINING **A. B.** DIVISIONAL ARTILLERY DEFENCE SCHEME
 Sheets 62ⁿ NE. SE. S.W. Scale 1:20,000

1862

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8/9 ✓

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APPENDIX

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TRACING B.
"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.

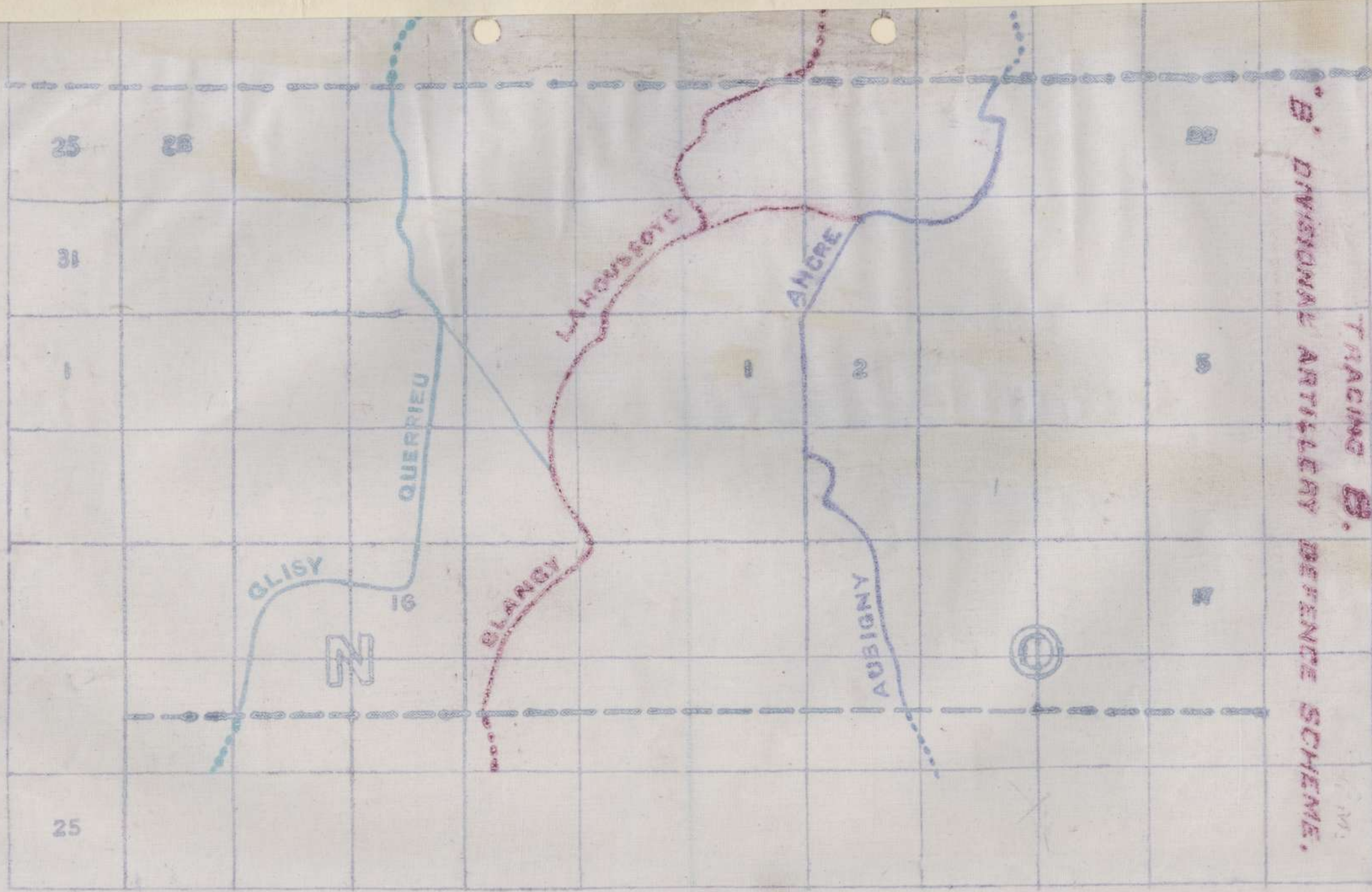


Chart 527 1-22000.

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

SECRET.

AMENDMENT No. 1

HEADQUARTERS,
15th July 1918.

to
"B" DIVISIONAL ARTILLERY DEFENCE SCHEME.

SECTION 1.

Para. 2

Delete lines 3 and 4 and substitute :-

"The RIGHT Inf. Bde. has 2 Battalions in the Line".

Para. 3.

Substitute +-

"The Inter-Brigade Boundary is E. along grid between P 3 & P 9 to P 4 c 4 0 thence through P 10 d 7575 to P 11 c 0 5.

SECTION 2.

Para. 1.

- (a) Delete "CENTRE Group consists of, etc."
- (b) For "LEFT Group consists of 1 F.A. Bde." read "LEFT Group consists of 2 F.A. Bdes."

Para. 3

Delete whole paragraph and substitute

"Inter-Group boundary is E. & W. line through P 25 c Central".

Para. 4.

Delete "and CENTRE Group".

SECTION 4.

Para. 1.

Delete "P 21 b 4000" and substitute -

"P 22 a 0 0 along road to P 22 a 1571 "
thence continue as per co-ordinates given.

Para. 2.

Delete "CENTRE".

SECTION 5.

Para. 1 (a), lines 7 and 8.

Delete "and both Officers will be in direct communication with the CENTRE Group Headquarters".

Para. 1 (b).

Delete lines 4 to 14 and substitute :-

- "The RIGHT Group -- One Subaltern with each Battalion in the line of the RIGHT Inf. Bde.
- The LEFT Group -- One Subaltern with each Battalion in the line of the LEFT Inf. Bde."

ACKNOWLEDGE (to 3rd Aust. D.A.H.Q.) on form attached.

H. J. ...

Major,
Brigade-Major,
4th Australian Divisional Artillery.

FOURTH

AUSTRALIAN

DIVISIONAL

ARTILLERY APPENDIX

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9SECRET.HEADQUARTERS,
30th June 1918.RIGHT Group.
CENTRE Group.
LEFT Group.
D.T.M.O..

R.A. Aust. Corps.)

H.A. " ")

"G" 4th Aust. Div..)

L. Off. (Art.) RIGHT Inf. Ede.) for

" " LEFT " ") inf..

2nd Aust. D.A..)

3rd Aust. D.A..)



SYNCHRONISED SHOTS TO BE CARRIED OUT DURING
THE NIGHT 30th June/1st July.

Time	Batteries 18-pr. How.	Group	TASK
11.25 p.m. for 3 min.	5 4 3	1 1 1	RIGHT Southern half of P 8 d. CENTRE (Dugouts & T.M., P 10 d 7570, (P 10 d 7 5 and P 10 d 9085 LEFT J 36 b.
12.55 a.m. for 8 min.	5 4 3	1 1 1	RIGHT VAIRE trench in P 14 b for 4 min. and lift to HUN's WALK in P 16 c. CENTRE Trench Syaten in P 10 b for 4 minutes & lift to E. half of P 11 b. LEFT Southern half of J 36 d for 4 min. and lift to N. half of K 31 c.
2.10 a.m. for 4 min.	5 4 3	1 1 1	RIGHT VAIRE Trench in P 14 d, P 14 d 6 8, P 14 d 5 5. CENTRE Northern half of P 9 d LEFT House at P 6 d 9560 and tracks leading thereto.
3.40 a.m. for 5 min.	5 4 3	1 1 1	RIGHT Eastern half of P 20 a. CENTRE Circular Post in P 8 d. LEFT J 36 b 2 2, K 31 c 6045, K 31 a 5510, K 31 a 2595.

Groups, D.T.M.O., R.A. & H.A. Corps and L. Officers please
ACKNOWLEDGE by wire.

W. P. Kinsey Major,
for Brigade-Major,
4th Australian Divisional Artillery.

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY APPENDIX COPY NO.

SECRET

HEADQUARTERS,
1st July 1918.

C.O., RIGHT Group.
CENTRE "
LEFT "
D.T.M.O..

7.17 AM

C 5/27/9.

R.A. Aast. Corps.)
H.A. Aust. Corps.)
"G" 4th Aust. Div..) for
L. Off. (Art.) RIGHT Inf. Bde.) inf..
" " LEFT " ")
2nd Aust. D.A..)
3rd Aust. D.A..)

SYNCHRONISED SHOOTS TO BE CARRIED OUT DURING NIGHT 1st/2nd JULY 1918.

Time	Batteries 18-DR. HOW.	Group	TASK.
10.40 p.m. for 2 minutes	5 4 3	1 1 1	RIGHT P 15 Cent. (H.Q.). CENTRE (Northern half of P 9 d , especially (P 9 d 7092. LEFT Wireless plant at K 31 c 5 3
11.50 p.m. for 3 minutes.	5 4 3	1 1 1	RIGHT Wood in P 20 b and P 20 b 3 5 CENTRE Trench in P 4 d LEFT Posts at J 36 a 3 2, J 36 a 2 3, and (M.G. at J 35 b 8 1 & J 35 d 8 7.
12.35 a.m. for 7 minutes.	5 4 3	1 1 1	RIGHT (P 14 Cent. and P 14 d 2 8 (Posts) (for 3 min. then lift to dump at (P 16 d 6550. CENTRE P 10 a for 3 min, then lift to P 11 b LEFT Northern half of J 36 c for 3 min. then lift to trench K 31 b 6 5 - 3 2.
2.5 a.m. for 2 min.	5 4 3	1 1 1	RIGHT Southern half of P 10 d. CENTRE Trenches in N. half of P 10 b. LEFT Dump at K 31 c 6550.
3.50 a.m. for 4 minutes.	5 4 3	1 1 1	RIGHT (Dugouts and centres of activity at (P 21 b 9005, P 21 d 9 7, P 22 a 0507, (P 22 a 3012, P 22 a 1555, P 20 b 3 3. CENTRE Northern half of P 10 d. LEFT Area containing M.G. at J 36 b 8510, J 36 b 2 2 and J 36 b 2 4.

Groups, D.T.M.O., R.A. and H.A. Corps and L. Off. please ACKNOWLEDGE by wire.

W. P. Kinison, Major,
for Brigade-Major,
4th Aust. Divisional Artillery.

— M.F.F

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9.

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

APPENDIX

RIGHT Group.
LEFT Group.
CENTRE Group.
D.T.M.O..

HEADQUARTERS,
2nd July 1918.

0 5/27/10.

R.A. Aust. Corps.
H.A. " "
L. Off. RIGHT Inf. Bde..
" " LEFT " "
"G" 4th Aust. Div..
2nd Aust. D.A..
3rd Aust. D.A..

SYNCHRONISED SHOOTS TO BE CARRIED OUT DURING NIGHT 2nd/3rd JULY

Time	Batteries		Group	Task
	1st pr.	HOW.		
9.45 p.m. for 3 minutes.	5	1	RIGHT	HAMEL WOOD in P 15 a & P 14 d 9 9 Road in P 10 b, especially work in progress at P 10 b 8 3. M.G. at P 5 b 9 9, J 35 d 5540 and J 35 d 9 0.
	4	1	CENTRE	
	3	1	LEFT	
11.35 p.m. for 2 minutes.	5	1	RIGHT	VAIRE TRENCH in P 14 d. M.G. nest at P 8 d 8 7. Work J 30 d 8 1 - 9 4 and M.G. at K 31 a 0 9.
	4	1	CENTRE	
	3	1	LEFT	
1.10 a.m. for 4 minutes.	5	1	RIGHT	New work at P 20 a 8 5 and new trench at P 20 a 7 6. Shelters of support companies P 10 b 8045 - 10 d 7580. Trench being consolidated J 36 a 1520 - 2035.
	4	1	CENTRE	
	3	1	LEFT	
2.55 a.m. for 3 minutes.	5	1	RIGHT	Trench in P 21 b. Trench in N. half of P 4 d and T.M. at P 4 b 7005. Transport on roads in K 31 d.
	4	1	CENTRE	
	3	1	LEFT	
4 a.m. for 7 minutes.	5	1	RIGHT	M.G. at P 20 b 3 5, Post at P 14 d 0 9, Post at P 14 d 3 6 for four minutes then lift to trench system in P 16 b. N. half of P 10 c for 14 minutes then lift to trenches in P 5 d. Work at J 36 a 2 3 and M.G. at J 35 d 8 7, J 35 b 8 1 for 4 min. then lift to dump at K 31 c 6550.
	4	1	CENTRE	
	3	1	LEFT	

GROUPS, R.A. & H.A. Corps and L. Officers please acknowledge by wire.

W. P. Kinison, Major,
for Brigade-Major,
4th Australian Divisional Artillery.

SOUTHERN Group
RIGHT Group.
CENTRE "
LEFT "
D.T.M.O..

HEADQUARTERS,
3rd July 1918.

"G" 4th Aust. Div..
R.A. Aust. Corps.
H.A. Aust. Corps.
L.O. (Art) RIGHT Inf. Bde..
" " LEFT " "
2nd Aust. D.A..
3rd Aust. D.A..

No. C 5/27/11.

SYNCHRONISED SHOOTS TO BE CARRIED OUT DURING NIGHT 2nd/3rd JULY

Time	Task No.	UNIT	Task
10.20 p.m. for 3 minutes	I.	RIGHT CENTRE LEFT	P 14 central and post at P 14 c 9 5 also M.G. P 20 a 9 4. M.G. nest at P 8 d 8 7 New work in progress K 31 c 6 3 to K 31 c 6 0 and M.G. at P 5 b 9 9
11.40 p.m. for 3 minutes.	II	RIGHT CENTRE LEFT	Dugouts at P 21 b 9005 - P 21 d 9 7 Road in P 10 b, especially P 10 b 8 3 and 5 3. Posts at J 36 a 2035, J 36 a 0728 and J 36 a 4 4.
2 a.m. for 4 minutes	III	RIGHT CENTRE LEFT	Eastern half of P 14 d. Trenches in N. half of P 10 d. (- 1 Section on road at P 5 c 1005, M.G. at J 35 d 5540, 7535 & 4 2. One Section on strong point (K 26 c 0 2.
ZERO minus 8 minutes to ZERO.	IV.	SOUTHERN GROUP RIGHT CENTRE LEFT	(Trench and work P 26 c 0540 - 0085 (Centre of activity in P 26 b (Trench & work P 20 d 1530 - 2090 VAIRE trench P 14 d 1 0 - P 8 d 7500. Trench P 9 c 0085 - P 4 c 4500 M.G. at J 35 d 8 7, 5540, 9 0, 7535 and 4 2.

NOTE :-

=====
In connection with the above table of Synchronised Shoots to be carried out during the night Y/Z the following instructions are to be observed :-

- (1) Gas will not be fired by 4.5" Hows. at any time during the night without orders from this Office.
- (2) All guns and Hows. engaged in harassing fire TASK IV will expend ammunition in accordance with the following :
 - (a) ZERO minus 8 min to ZERO minus 4 min. ---
 - 100% A X for 18-prs..
 - 100% B X for 4.5" Hows..
 - (b) ZERO minus 4 min. to ZERO HOUR ---
 - 10% Smoke Shell
 - 90% H.E.

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APPENDIX 9 186

2.

- (3) For the purpose of TASK IV Group Commanders will arrange that one Section per Battery of the Group is employed, in order that the total number of guns shooting may correspond to the total number normally engaged in harassing fire. The remaining two Sections per Battery will thus be enabled to devote ample time to making preliminary arrangements for laying on the ARTILLERY START LINE (in the case of the LEFT Group the S.O.S. Line), and carrying out the examination and checks indicated in ORDER No. 160.
- (4) The 4.5" Hows. employed in TASK IV will gradually work back from their harassing fire targets, the lifts being so arranged as to ensure their fire being directed on the 4.5" How. ARTILLERY START LINE at ZERO.

GROUPS and Liaison Officers ACKNOWLEDGE by wire.

W. P. Kinison, Major,
for Brigade-Major,
4th Aust. Divisional Artillery.

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

SECRET.

HEADQUARTERS,
 3rd July 1918.

SIGNAL INSTRUCTIONS TO
F.O.Os. and FLANK OBSERVERS.

1. Infantry Brigade Forward Stations will be established at -

4th Aust. Inf. Bde. -- near P 9 a 9520
 11th " " " -- " P 15 c 1575

These Stations will be in communication by various means with their respective cable heads who in turn are connected to Artillery Group and Infantry Brigades. The F.O.O. party will consist of -

2 telephonists,
 2 linesmen,
 2 Signallers.

They will carry forward -

2 D.3 telephones.
 2 Lucas Lamps
 4 pigeons
 $\frac{1}{2}$ mile D.2 cable.

Cable can be obtained at D.A.H.Q.. Other stores will be arranged for with the Brigade.

A Div. Artillery Signal Station will be in PAGODA in I 24 d 5 0 and will take D D messages only. This Station will be connected with Left Group Headquarters by 'phone. The call of this Station for Artillery messages is A R T. Each word will be repeated and the message sent once again as a whole, when V.E. will be sent twice.

2. The F.O.O. on establishing himself in forward position, will lay a line to nearest Infantry Brigade Forward Station in accordance with S.S. 191. Messages will be accepted there for Group Headquarters. Groups will be in direct communication to cable heads.
3. Visibility permitting, communication by visual will probably be quicker than through Infantry Brigade Forward Stations. Pigeons should only be used when all other means fail. All available means should be utilised and messages sent by alternative means which are -

Telephone to Brigade Forward Station,
 Runner " " " "
 Visual to A R T (D.A. Visual Station)
 PIGEONS.

4. F.O.O. with RIGHT Infantry Brigade will lay line to C.H. Test Point at O 24 d 5 2 and connect to direct buried line to SOUTHERN GROUP. A C.W. Station exists at P 19 a 0 0. LEFT Group will not provide party for F.O.O. but will maintain communication to F.O.O..

FLANK OBSERVERS

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2.

FLANK OBSERVERS.

5. LEFT FLANK Observer is connected with ground and canal cable to LEFT Group, also by ground cable to 16th Bde. R.H.A..

Continuous wave Wireless Station is established in WELCOME WOOD with communication to 4th Aust. D.A.H.Q. at BUSSY-les-DAOURS and 11th Aust. F.A. Brigade Headquarters. He will be provided with two pigeons.

6. RIGHT FLANK Observer will be connected to C.H. Test Point and thence direct buried line to SOUTHERN Group. C.W. Wireless Station is established at O.P. in P 19 a 1 9 with communication to SOUTHERN Group Headquarters. He will be provided with two pigeons.

7. ACKNOWLEDGE by wire.
=====

R. B. Ash Lieut.,
Sig.-Officer,
4th Aust. Divisional Artillery.

Issued to :-

F.O.O. RIGHT Group.
LEFT "
CENTRE "
SOUTHERN Group.

LEFT Flank Obs. Officer (Lieut.M.A. FERGUSSON)
RIGHT " " " (Lieut.N.D. RICHARDSON)

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY. COPY NO.

SECRET.

COMMUNICATIONS.

HEADQUARTERS, 3rd July 1918. C 7/145

The following means of communication will exist :-

1. TELEPHONIC :-

- (a) Between D.A.H.Q. and Groups.
 - 1 line SOUTHERN Group - Ground line.
 - 1 line RIGHT Group - Bury and Canal cable.
 - 2 lines CENTRE " - Bury and ground cable & railway protected cable.
 - 1 line 11th Aust. B.A.B. - Bury canal cable.
 - 1 line LEFT Group - Bury canal and ground cable.
- (b) Between Artillery Groups.

Each Group has lateral communication with neighbouring Group by ground canal and railway protected cable.

16th Bde. R.H.A. is connected by ground and canal cable to LEFT Group. 2 pairs.
- (c) Between Artillery Groups & Infantry Brigades.

SOUTHERN GROUP	& 6th Inf. Bde.	- Buried cable.
RIGHT	" " 4th " "	- " "
"	" " 13th " "	- Canal cable
CENTRE	" " 11th " "	- Ground cable.
LEFT	" " 12th " "	- " "
- (d) Between Groups, Sub-Groups and batteries.

Buried, canal and ground cables by alternative routes.
- (e) Groups and F.O.Os.
 - SOUTHERN GROUP. - 1 pair buried. C.H. Test Point direct.
 - RIGHT " - 1 pair buried, and ground cable to cable head at P 8 c 4 0.
 - CENTRE " - 1 pair ground cable to cable head at P 2 c 8 1.
 - LEFT " - 1 pair ground cable to F.O.O. with Battalion direct.

Forward of cable heads in cases of RIGHT and CENTRE Groups communication will be carried out according to principles laid down in S.S. 191 ("INTER-COMMUNICATION in THE FIELD). F.O.Os. will lay line into Brigade Forward Stations. F.O.O. with RIGHT Infantry Brigade will lay line to test box C.H. at O 24 d 5 2.

- (f) Between Divisional Flank Observers.
 - RIGHT Flank - 1 pair buried cable to SOUTHERN Group.
 - LEFT " - 1 pair ground line and canal cable to LEFT Group.
 - 1 pair ground line to C.W. Station.
 - 1 pair ground line to 16th Bde. R.H.A..

2 VISUAL :-

Through all Groups and Brigades an alternative visual Scheme will be established.

/ A Divisional

2. VISUAL (Continued) :-

A Divisional Artillery Signal Station will be at in PAGODA in I 24 d 5 0 and will receive D.D. messages. The call for Artillery messages is A R T. This Station is in telephonic communication with LEFT Group.

3. WIRELESS :-

Continuous Wave Wireless Stations are erected at -

4th D.A.H.Q. BUSSY	...	Call	L X R
11th Aust. F.A. Bde.			
(I 23 d 6 2)	...	"	L Z K
WELCOME WOOD, J 27 b 2 3	..	"	L Z L
O.P. at P 19 a 1 9	...	"	L X K
SOUTHERN GROUP N 18 d 4 5	..	"	L X F
3rd Aust. D.A.H.Q. GLISY	..	"	L Z X

4. MOTOR D.Rs. :-

Motor D.Rs. will deliver S.Ps. to all Groups Headquarters only. Sub-Groups will collect from Group H.Qrs..

5. PIGEONS :-

Each F.O.O. (except LEFT Group) -- 4 pigeons.
Flank observer -- 2 "

Birds will be delivered at Group Headquarters as soon as they are available.

Special instructions have been issued to B.O.Os. separately.

6. ACKNOWLEDGE by wire.

R. B. Ash

Lieut.,
Sig.-Officer,
4th Aust. Divisional Artillery.

DISTRIBUTION.

- 1 - 6 RIGHT Group.
- 7 - 12 CENTRE "
- 13 - 16 LEFT "
- 17 - 20 SOUTHERN "

- 21 File.
- 22 4th Aust. Div. "G" (for inf.)
- Diary, etc..

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SECRET.

SOUTHERN Group.
 RIGHT "
 CENTRE "
 LEFT "
 D.T.M.Q.

HEADQUARTERS,
 4th July 1918.

C 5/27/12

R.A. Aust. Corps.)
 L.A. Aust. Corps.)
 "C" 4th Aust. Div..)
 L. Off (Art.) LEFT Inf. Bde..) for inf..
 " " " RIGHT " ")
 2nd Aust. D.A..)
 3rd Aust. D.A..)

SYNCHRONISED SHOOTS TO BE CARRIED OUT DURING NIGHT 4th/5th JULY.

Time	Batteries	Group	Task
10 p.m. for 5 minutes.	50% guns	SOUTHERN RIGHT CENTRE LEFT	French and works in P 27 c. N. of road. Trench and works in P 23 a) Q 7 c) See Special J 36 d) task for 4.5" Hows.
11.30 pm. for 3 minutes.	50% guns and Hows.	SOUTHERN RIGHT CENTRE LEFT	E. half of P 22 c P 17 b Q 1 c K 31 d
2.25 a.m. for 4 minutes.	50% guns and hows.	SOUTHERN RIGHT CENTRE LEFT	P 28 a P 17 c Road in Q 7 a K 31 a
6.15 a.m. for 6 minutes.	50% guns and Hows.	SOUTHERN RIGHT CENTRE LEFT	(S.O.S. line plus 200 yards for 1 minute, then lift eastward in 4 100 yard lifts, finally drop on to (S.O.S. plus 200 for 1 minute.

50% of Batteries only will take part in Synchronised harassing shoots.

All Batteries will fire upon receipt of an S.O.S. Signal or message.

Special CAS TASK will be issued to 4.5" Hows. for 10 p.m. shoot.

ACKNOWLEDGE by wire (GROUPS & LIAISON OFFICERS ONLY).

W. Tomkinson Major,
 Brigade-Major,
 4th Australian Divisional Artillery.

APPENDIX

4th
 AUSTRALIAN
 DIVISIONAL ARTILLERY
 No. *65/27/13*
 Date.....

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

Headquarters,
4th July 1918.

SECRET
=====

Reference this Office No. C. 5/27/12 of even date.
=====

Special Gas Task will be carried out at 10 p.m. 4th July as follows :-

Unit	How. Batteries	Task
SOUTHERN Group	2	Trenches P28 d north of main road.
RIGHT Group	5	VALLEY P 24 b 3580 - Q 13 o 11 - Q 13 o 4570
CENTRE Group	3	VALLEY Q 13 o 4570 - Q 13 a 7515.
LEFT Group	2	K 31 d 35 - k 31 d 97.

Ammunition in following order :-

First 2 minutes	-	60 rounds BCG or BCBR.	} Total 300 rounds per Bty.
For next 10 minutes		REST.	
For next 15 minutes		240 rounds BNO.	

ACKNOWLEDGE by wire. (Groups and Liaison Officers only)
=====

W. Pankhurst
 Major,
 Brigade-Major,
 4th Australian Divisional Artillery

DISTRIBUTION
=====

As for C. 5/27/12.

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APPENDIX

9

"A" Form.
MESSAGES AND SIGNALS.

Army Form C. 2121. (In pads of 100.)

No. of Message.....

Prefix..... Code..... m Words. Charge.
Office of Origin and Service Instructions.
This message is on alc of:
Recd. at m.
Date.....
Service.....
Frcm
By..... (Signature of "Franking Officer.")

TO { 16 R.A.A. Centre Corp 45 Aust P.M.C.
Southern Corp Left Corp 17 C BAC (No. 1st)
Rind Corp 4 C BAC (No. 1st)

Sender's Number. Day of Month. In reply to Number.
* WB.1. 4/7/18 AAA

THE ARMY COMMANDER WISHES
HIS CONGRATULATIONS CONVEYED TO
YOU AND YOUR MEN
ON YOUR EXCELLENT WORK
AAA GENERAL BIRDWOOD AND
THE CORPS COMMANDER BOTH
SEND YOU AND YOUR
COMMANDS THEIR BEST CONGRATULATIONS
ON YOUR BRILLIANT WORK
AAA THE DIVISIONAL COMMANDER
WISHES TO ADD HIS
OWN CONGRATULATIONS TO THE
ABOVE APPRECIATIONS AAA

From 45 Aust Div arty
Place 45 Aust Div arty
Time

The above may be forwarded as now corrected. (Z) H. J. Thompson Major
Censor. Signature of Addressor or person authorised to telegraph in his name.

* This line should be erased if not required.
(3796.) Wt. W 492/M1647. 650,000 Pads. 5/17. H.W. & V., Ld. (E. 1187.)

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

C5/41

To :-

HEADQUARTERS,
5th July 1918.

All Group, Brigade & Battery Commanders,
Horse and Field Artillery
Covering attack on HAMEL & VAIRE WOOD Plateau.

The Army Commander, G.O.Cs. Australian Imperial Force, Australian Corps and 4th Australian Division, have expressed to you their commendation and congratulations on your work of yesterday.

Many of the Artillery Brigades will shortly be leaving us. Before we separate I want to express to you all my appreciation and thanks for the willing and able efforts of all concerned which alone obtained the excellent Artillery results which so materially assisted the assaulting Infantry.

We appreciate most fully the commendation and high tribute which has been sent to us by the Higher Commanders, but without deprecating in the least this great honour from Headquarters, our most valued testimonial comes from the Infantry themselves.

Without exception, they have expressed their satisfaction and appreciation of the work of the covering Artillery, both in the preparatory, actual barrage and subsequent protective fire provided.

None of us can expect higher praise or more adequate commendation than this. We are all delighted to know that our efforts have been of service to our Infantry who are essentially in the best position to judge the efficiency and usefulness of the fire from their covering guns.

W.L.H. Burgess

Brigadier-General,
C.R.A., 4th Australian Division.

/Overleaf

Issued to :-

Brigade and Battery Commanders of ---

16th ARMY Bde. R.H.A.:

"SOUTHERN GROUP" --

23rd ARMY Bde. R.F.A., 179th ARMY Bde. R.F.A.,
14th ARMY Bde. R.F.A., and D/86 Battery.

"RIGHT GROUP" --

10th Aust. F.A. Bde., 189th ARMY Bde. R.F.A.,
78th Bde. R.F.A., 79th Bde. R.F.A.,
236th Bde. R.F.A..

"CENTRE GROUP" --

11th Aust. F.A. Bde., 13th Aust. F.A. Bde.,
14th Aust. F.A. Bde., 150th ARMY Bde. R.F.A..

"LEFT GROUP" --

298th ARMY Bde. R.F.A., 4th R.H.A. Bde. (3rd
CAV. Division), 235th Bde. R.F.A.:

D.T.M.O. and 4th Aust. Div. M.T.M. Batteries.

and Commanders of all Brigade and Divisional
Ammunition Columns.

Visit of French Prime Minister to the Australian Troops.

It will interest members of the AUSTRALIAN Corps to know how it was that the Prime Minister of France came up to visit us the other day and what he said.

When the Supreme Council of the Allies was sitting at Versailles the other day, and the Prime Ministers of France, Italy, and England were present around the table, and all the Prime Ministers of the Dominions, it so happened that there came in, while they were deliberating there, the news of the battle of Hamel, and of the success that the Australian Troops had gained. All those present asked the Secretary to telegraph at once their congratulations to the Australians. But when it came to M. Clemenceau, the venerable Prime Minister of France, after starting to instruct the Secretary to telegraph his congratulations also, he said: "No, I will go and tell them myself."

M. Clemenceau is 78 years of age. Every Sunday he drives to some division of the French Army, goes to see them close up to the line, travelling hundreds of miles through the country in spite of his age. This Sunday he determined to come to an Australian Division. As the 4th Australian Division had been directing the operations at Hamel, he came to that. After chatting and laughing with the Officers and men who could be got together at short notice at Headquarters—as much at home amongst them as if he were a boy again—he said he would like to say a word or two to them on behalf of the French people. A number of the men were gathered into a rough semicircle, and the little Premier, "The Tiger," as he is known by the French, standing in front of them simply, without any attempt to flatter or over-do his praise of them, made them in English the following speech:—

"Gentlemen," he said, "I hope you will be kind enough to excuse my faulty English. I know only a little, but I find it very useful at this moment, this English, because it enables me to tell you what all the French people think of you. When the Australians came to France we expected a great deal of you. First, because we had heard of what you had done in war in Gallipoli; secondly, because we had heard a great deal of what you had accomplished in peace in your own country. The French people expected that when you came to France to fight in this great struggle, which, after all, is the same for the French, the English, the Australians and all those who have fought this great war out in the cause of freedom, which is the same for all, they expected a good deal of you; and I should not like to say that they have been surprised that you have fulfilled that expectation. They admired most the fact that you were capable of doing what they expected of you. The more they expected of you, the more they held it in admiration.

"Hamel—after all, that is not such a very great battle; but I am ready to hold that in a comparatively small battle the man, the fighting man, who goes in to give all he has—his home, his hopes, his life itself—in a small battle his qualities show in all the brighter light, the action of each individual man having more influence in the final result. In a very big action it is not possible to notice so well the qualities of particular men. Well, in this battle the Germans saw that they had before them men who came from far away to attest that wherever free people lived, in England, in France, in Australia, New Zealand, Canada, and all free countries, these were not ready to give way to the Boche who has acted with such barbarity—who wounded and killed not only men in battle, but women and old men and little children—who ruined and destroyed our country, our houses, our fruit trees, even our gardens.

"We have all been fighting beside each other here. It is such a wonderful thing that this should happen in history on these old fields of battle which you had read of in books, hearing of wars which you had not seen and the consequences of which you had never expected to see. It is a wonderful thing that you should be fighting beside us on these old battlefields of history. Still, it has come true. The work of our fathers, which we wanted to leave unharmed to our children, they tried to rob us of. They tried to take from us all that was dearest in modern society. But the free nations of the world said that the Boche should not do this so long as they were there to come and prevent it. Men were the same in England, in France, in Italy, and all the countries which are proud of being the home of a free people. And that is what you did. And that is what made us greet you when you came. We knew that you would fight a real fight. But we did not know that from the very beginning you would astonish the whole continent.

"I have come here just for the very purpose of seeing the Australians. I am going back to-morrow to see my countrymen and tell them: 'I have seen the Australians. I have looked in their eyes. I know that these men who have fought great battles beside us in the cause of freedom will fight alongside us again until the cause of freedom for which we are battling is safe for us and for our children.'"

The Australians who had been listening to this fine speech from the Grand Old Man of France, gave three tremendous cheers for France, which affected him greatly. He then called for three cheers for Australia, and left to go back to Paris.

APPENDIX 9

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

SECRET.

Headquarters,
5th July 1918.

- RIGHT Group,
 - CENTRE Group,
 - LEFT Group,
 - SOUTHERN Group,
 - L. Off. (Art.) 12th Aust. Inf. Bde,
 - " " " 4th Aust. Inf. Bde,
 - " " " 6th Aust. Inf. Bde,
 - " " " 11th Aust. Inf. Bde,
 - R.A., Australian Corps } for 4th Aust. Div. "G",
 - H.A., Australian Corps } inf. 4th Aust. D.T.M.O.
- 2nd Aust. D.A.,
3rd Aust. D.A.,

05/27/18

1. Effect C.P. scheme, Phase 1 b, during the night 5th/6th July 1918 for two periods as follows :-
 - From 10.15 p.m. to 10.35 p.m.
 - From 3.5 a.m. to 3.25 a.m.
2. All batteries in action will fire.
3. Targets will be arranged by Group Commanders in consultation with Infantry Brigadiers concerned.
4. Programme of synchronised shoots for night 5th/6th July will not be issued.
5. ACKNOWLEDGE (Groups and Liaison Officers by wire).

W. Parkinson, Major,
for Brigade-Major,
4th Australian Divisional Artillery

186 ✓

FOURTH AUSTRALIAN DIVISIONAL

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9
APPENDIX
ARTILLERY.

My Dear General,

HEADQUARTERS,
8th July 1918.

I am writing these few lines to express to you my admiration and appreciation of the most effective manner in which your Tanks co-operated with our Infantry during the recent attack on the HAMEL and VAIRE WOOD Plateau.

Being in a good position to view the attack, I was greatly impressed not only with the speed and quick work of the Tanks but particularly with their "flexibility" and manoeuvring power.

Having subsequently been over the actual ground traversed by the Tanks, the above qualities have been still further impressed upon me, as your Tanks have traversed sunken roads, quarries and steep banks that would have appeared impassable had I not seen their tracks crossing them, and have turned in spaces and places which I should have thought altogether out of the question.

I need not comment on the fine Tank action in the trench system in P 10 and P 11; their prompt and effective help to our Infantry, or the tenacious manner in which they closely followed our barrage throughout the advance.

In congratulating you on the carefully arranged and most successful plan of Tank action and of the proved efficiency of the Tanks themselves, I should like to add, if I may, my heartiest congratulations to all Officers and men of your Tank crews.

Yours faithfully,

H. A. Burgers.

Brigadier-General,
C.R.A., 4th Australian Division.

To :- Brig.-General A. COURAGE, D.S.O., M.C.,
Commanding 5th Brigade of Tanks.

Australian Corps,
8th July, 1918.

GENERAL STAFF CIRCULAR No. 31.

1. An incident occurred on the 6th instant, on the Corps Front, which aptly illustrates the many opportunities which occur for the exploitation of a successful battle.
2. A hostile post south of VAIRE WOOD was observed to be occupied, and was engaged by our troops in the front line with rifle grenades. One of our men went forward to examine the post. He was seen and, although the enemy showed a little fight, they were quickly disposed of. With the aid of a few hand grenades, our man subdued the post and personally took prisoner the whole garrison, consisting of one Officer and 12 other ranks and brought them back to our lines. On examination of these prisoners, they shewed to a striking degree, the state of utter demoralisation to which the enemy troops had been brought as the result of our operation. It was difficult to imagine men exhibiting greater dejection and a poorer morale than those prisoners. They had been sent forward aimlessly to assist in forming an outpost line to cover the remainder of their Battalion. They had been left without food or water and utterly out off, not knowing either our situation or that of their own troops. They were indeed quite helpless and fell an easy prey to our enterprise and pressure.
3. Examination of other prisoners disclosed how hopelessly mixed the enemy units became as the result of our attack, small posts being cut off and left without rations or means of communication, owing to the harassing fire of our artillery. This confusion was not confined to the immediate area where the battle was fought, but extended to a considerable distance behind the enemy's most forward troops.
4. The Corps Commander desires that these occurrences should be brought to the notice of regimental officers, in order to stimulate them to spare no effort, immediately after a battle, to exploit our successes to the utmost by the incessant harassing of the enemy and the mopping up of small posts. By judiciously seizing opportunities, by energy and enterprise, and by bold action, the fruits of a victory such as that of July 4th can almost be largely extended without appreciable cost to ourselves. The Corps Commander hopes that, under similar circumstances in the future, all front line Commanders will be animated with this spirit of enterprise.
5. The only safeguard which must, however, at all times, be insisted upon, is that the artillery covering the sector must be kept fully advised as to any such patrolling enterprises, so that no unnecessary risks are taken as regards our own men.

(sgd) J.D. ROGERS Captain for
Brigadier-General,
G.S., AUSTRALIAN CORPS. 4th.

All Brigades.

For your information please. Sufficient copies are enclosed for distribution down to Batteries and Sections D.A.C.

Headquarters,
12th July 1918.

J.D. Rogers
Major,
Brigade-Major,
4th Australian Divisional Artillery.



APPENDIX 9

LOCATION STATEMENT -- 2nd July 1918.

4th Aust. D.A.E.Q. ("B" Div. Arty. H.Q.) -- BUSSY-lee-PAOURS.

	UNIT	Battery	Gun location	Wagon lines	Arc of fire EPA bearing (degrees)	OFFICER COMMANDING	
RIGHT GROUP	10th Aust. F.A. Bde.	H.Q.	(O 10 a 9 7)	H 29 a 8 4		Lieut.-Col. T.I.C. WILLIAMS, D.S.O. Major E.S. SUTTON Captain G.W. HALL Major G.R. SPURGE.	
		37th	(O 16 a 4820)	H 36 a 9 9			
		38th	(O 18 a 0027)	H 15 d 5575			
		39th (2)	(O 17 a 5034)				
RIGHT GROUP	189th ARMY Bde. R.F.A.	H.Q.	(O 10 b 2070)	H 34 b 4 8	70 - 120	Major E.K. SMART, M.C. Lieut.-Col. RAIFES, D.S.O. Major R.R. HOARF, M.C. Major M.J.R. WOOD Capt. G.W.F. ELYTHE	
		B/189	(O 17 b 1500)	H 28 o 8 4			
		34th (2)	(O 17 d 6525)	H 28 d 8 3	60 - 170		
		D/189	(O 17 d 1020)	H 28 b Cent.	55 - 130		
RIGHT GROUP	235th Bde. R.F.A.	H.Q.	(O 10 b 1 7)	H 34 d 9060		Lieut.-Col. A.H. BOWRING Major COOPER Major BERNARD Captain YENCKEN Major DUNCAN.	
		A/235	(O 18 a 0891)				
		B/235	(O 12 c 2834)	H 12 d 5 8			
		D/235	(O 12 a 5000)				
RIGHT GROUP	78th Bde. RFA. (17th Div.)	H.Q.	(O 4 a 9 4)	H 12 d 8 3		Major MARSHALL, D.S.O. Captain TRISTIE Major STUDDWICK, M.C. Captain FARRINGTON Major OFFICER.	
		A/78	(O 12 a 8024)	N 12 d 2 0			
		B/78	(O 8 c 8705)	O 1 a 3 0			
		D/78	(O 8 d 0827)	O 1 a 7 3			
RIGHT GROUP	79th Bde. RFA. (17th Div.)	H.Q.	(H 35 c 8030)	H 29 d		Col. L.E. WARREN, D.S.O. Major A.C. WALKER Capt. G.O. MORGAN, M.C. Major W.H. THOMPSON, M.C. Major J.M. HILLGARD.	
		A/79	(O 8 d 5320)				
		B/79	(O 8 b 8025 Appy)	30 c			
		D/79	(O 8 b 9090 Appy)				
CENTRE GROUP	11th Aust. F.A. Bde.	H.Q.	(I 23 d 6020)	I 24 a 2060(F)	85 - 155	Major P.J. ROSS, M.C. Captain D.O.L. KITTO, M.C. Major S.F. HODGENS, D.S.O. Major G.R. TURNER Capt. W.E. COX	
		41st(4)	(J 28 a 5425)	I 13 c 2020(R)			
		(2)	(I 24 b 9598)	I 24 c 4030(F)	80 - 170		
		42nd(4)	(J 21 c 8582)	H 24 c 3080(R)			
		(2)	(I 24 d 0659)	I 22 c 8060(F)	85 - 152		
		43rd(4)	(J 25 d 0010)	H 18 d 8000(R)			
	CENTRE GROUP	15th Aust. F.A. Bde.	H.Q.	(I 29 c 9010)	H 17 d 7050	70 - 150	Lieut.-Col. H.O. CADDY, D.S.O. Major R.V. GATLIFF, D.S.O. Major H. RETCHFORD Major E.G. LISTER Major A.R. LESCHEN.
			49th	(O 6 d 6248)	N 18 a 8030	75 - 160	
			50th	(P 1 a 0575)	N 18 c 5070	75 - 130	
			51st	(O 6 b 8070)	N 18 a 3070	90 - 185	
			113th H.	(J 26 c 5570)			
			CENTRE GROUP	14th Aust. F.A. Bde.	H.Q.	(I 24 b 6000)	
53rd	(J 26 c 3000)	N 18 a 8020			95 - 165		
54th	(I 30 b 0020)	N 18 d 5000			92 - 160		
55th	(I 30 b 1050)	N 18 c 4080			80 - 150		
114th H.	(I 36 c 3030)						
CENTRE GROUP	150th ARMY Bde. R.F.A.	H.Q.			(I 24 b 0040)	I 28 b 2080(F)	95 - 170
		A	(J 25 a 1080)	C 25 c 2020(R)			
		B	(J 26 a 2040)	I 12 a (F)	95 - 180		
		C	(J 25 b 9580)	I 20 b 5040(F)	95 - 160		
		D	(J 26 c 2030)	C 25 c 2020(R)	90 - 180		
		LEFT GROUP	235th Bde. R.F.A.	H.Q.	(J 19 a 8585)	J13 b 1090 (F)	114 - 178
A/235	(J 14 c 5050)			H 23 a 8 1 (R)	110 - 178		
B/235(2)	(J 21 b 1010)			I 20 b 5 8			
(2)	(J 14 d 1500)						
C/235(3)	(J 14 b 3248)			I 22 a 2050(F)	113 - 175		
D/235(4)	(J 13 c 9080)			H 22 d 4 4 (R)	96 - 180		
LEFT GROUP	4th Bde. R.H.A.	H.Q.	(J 14 c 3060)	H 31 d 4 5	115 - 190	Lieut.-Col. W.S.M. ASCHWANDEN DSO. Major P.J. CLIFTON, D.S.O. Major S.L. KEYMER Major I.K. PLYNN Major A.J. COWEN, D.S.O.	
		A/335	(J 15 a 1050)	BUSSY	125 - 190		
		B/ "	(J 15 a 9070)	BUSSY	120 - 185		
		D/ "	(J 15 b 1030)	BUSSY	125 - 185		
LEFT GROUP	4th Bde. R.H.A.	H.Q.	(J 14 c 3060)	H 23 b 9 8	115 - 185	Lieut.-Col. LASSELLS, D.S.O. Major LAFFERTY. Major PALMER, D.S.O. Lieut. PONTOR	
		CANADIAN	(J 14 d 8 4)	H 24 a 8 8	110 - 190		
		"M"	(J 14 c 9 1)	H 29 b 3 5	105 - 185		
		"K"	(J 14 c 8 0)				
LEFT GROUP	16th Bde. R.H.A.	H.Q.		H 34 c 0 0		Lieut.-Col. J.C.B. ALLARDYCE, DSO. Major A.W. STRAUBENZEE, D.S.O. Major A.R. BURNE, D.S.O. Major A. ARCHDALE.	
		"A"		N 17 d 5 6			
		"Q"		Between Rly. & m.road in			
		"U"		H 23 b & d			
T. MORTARS	4th Aust. M.T.M. Btys.	H.Q.	(I 34 c 7090)	one	138 - 176	Capt. S.J. FOX Capt. W. PINDER Capt. W.H. FELSTEAD	
		7th Bty.	(P 8 b 0315)	mortar	72 - 112		
		8th Bty.	(J 29 c 4500)	at	118 - 159		
		(2 Res. mortars)	(J 26 b 2050)	each position	112 - 162 175 - 215 175 - 215		
ANTI-TANK GUNS.	ANTI-TANK GUNS.	15-pr.	(P 19 b 0090)			0 - 180	
		"	(P 8 c 2000)				
		"	(J 19 d 9000)				
		6-pr. Hotchk.	(J 29 c 5550)				
D.A.C.	4th Aust. D.A.C.	H.Q.	(H 22 b 2 7)			Lieut.-Col. H.V. VERNON, D.S.O. Capt. E.S. DAVEY Capt. D.E. AIKINS Capt. A.S. FORD	
		No. 1	(H 22 b)				
		" 2	(H 22 b)				
		" 3	(RIVERKY)				
SOUTHERN GROUP	23rd ARMY Bde. R.F.A.	H.Q.	(A 19 d 8 5)	N 17 c 4 4	(degrees)	Lieut.-Col. H.M. BALLINGALL, DSO. Major J. DeB. T. LUCAS, M.C. Major H. BRITTAIN Major S.M. de H. WHATTON, M.C. Major E.G. LUTYENS Major H.B. STEPHENS.	
		107th	(O 15 b 8010)	N 14 a 5 5			
		108th	(O 15 d 2328)	N 21 c 5 5			
		C/23	(O 21 c 3998)	N 16 d 9005			
		D/23	(O 23 a 4657)	N 17 c 5 5			
		D/66(3)	(O 16 d 4030)	N 8 a 0 5			
SOUTHERN GROUP	179th ARMY Bde. RFA.	H.Q.	(N 18 d 7 5)	N 7 d 3585		Lieut.-Col. H.H. ELEY, CMG, DSO. Major A.D. EDWARDS, M.C. Major K.H. COUSLAND Major R.A. WITHAM, D.S.O. Major D.P. EVANS, M.C.	
		388rd	(O 17 d 2000)	N 7 d 3791			
		462nd	(O 23 b 8285)	N 19 c 0 0			
		463rd	(O 23 c 1082)	N 7 c 9582			
SOUTHERN GROUP	14th ARMY Bde. RFA.	H.Q.	(O 13 c 3 9)	N 22 c 2 7		Lieut.-Col. C.F. ST JOHN, DSO. Major N.T. CALVERT Major G.T. NUDGE, M.C. Major F.S. WINGATE-GRAY Major P.F. CAMPBELL.	
		88th(3)	(O 23 c 8515)	N 20 b 8030			
		(3)	(O 23 c 9719)				
		88th(3)	(O 23 d 7459)	N 15 d 7 0			
SOUTHERN GROUP	402nd	A/14	(O 29 a 8098)	N 15 d 7 7			
		D/14	(O 23 d 5106)	N 20 a 2 1			

Any alterations to be notified to this Office immediately.

ACKNOWLEDGE on form attached.

C.H. Rowan Lieut., Staff-Lieut., 4th Australian Divisional Artillery.

APPENDIX

LOCATION STATEMENT

Reference Map Sheet 82 D 1/40,000 4th Aust. D.A.R.Q. ("B" Div. Arty. H.Q.) -- BUSSY-les-DAOURS.

HEADQUARTERS, noon, 7th July 1918.

	UNIT	Battery	Gun location	Wagon Lines	Arc of fire Grid bearings (degrees)	OFFICER COMMANDING
RIGHT GROUP	10th Aust. F.A. Brigade	H.Q.	(O 10 a 9 7 (Hospice	H 29 a 8 4		Lieut.-Col. T.I.C. WILLIAMS, D.S.O.. Capt. F.J.M. McADAM. Capt. G.W. HALL Major C.H. SPURGE.
		37th	O 18 a 4820	H 36 a 8 9		
		38th	O 18 a 0027	N 15 d 5575		
RIGHT GROUP	189th ARMY Bde. R.F.A.	39th (2)	(O 17 a 3024)			Major E.K. SMART, M.C.. Lieut.-Col. L.T. RAIKES, DSO. RFA. Major M.J.R. WOOD. Major R.R. HOARE, M.C.. Capt. G.W.F. BLYTHE
		(2)	(O 17 c 3080)	N 5 d 6510		
		(2)	(O 17 a 3020)			
		110th H.	O 12 c 6216	H 29 a 2050		
		H.Q.	H 34 b 4 8			
		34th (4)	O 17 d 5593)			
		(1)	O 17 c 8 1)	H 28 d 8 3(F)	57 - 178	
		(1)	O 17 d 2035)	O 2 c 4090(R)		
		B/189	O 17 b 1035	H 28 c 6 4(F)	70 - 120	
		D/189	O 17 b 2 5	H 28 b Cent.(F)	24 - 36	
RIGHT GROUP	236th Bde. R.F.A.	H.Q.	O 10 b 1 7	H 34 d 9080		Lieut.-Col. A.H. BOWRING Major COOPER Major BERNARD Captain YENCKEN. Major DURCAN
		A/236	O 18 a 0891)	N 12 d 5 6		
CENTRE GROUP	11th Aust. F.A. Brigade	41st	I 23 d 8020	I 24 a 3080(F)	85 - 165	Major P.J. ROSS, M.C.. Captain A.V. RICHARDSON Major S.F. HODGENS, D.S.O.. Major C.R. TURNER Captain W.E. COX
		42nd	J 26 a 3425	I 15 c 2020(R)		
		43rd	J 21 c 8383	I 24 c 4030(F)	80 - 170	
		43rd	J 26 c 3031	H 24 c 3030(R)		
		111th (2)	J 26 c 3086	I 23 c 8080(F)	83 - 162	
		How. (2)	J 26 c 3994	H 18 d 8000(R)		
		How. (2)	J 26 c 6593	I 21 b 6050	75 - 170	
LEFT GROUP	13th Aust. F.A. Brigade	49th	I 29 c 9010	H 17 d 7050		Lieut.-Col. H.O. GADDY, D.S.O.. Major H.V. CATLIFF, D.S.O.. Major H. RETCHFORD Major E.G. LISTER Major A.R. LESCHEN
		50th	O 6 d 6248	N 18 a 8030	70 - 150	
		51st	O 6 d 9500	N 18 c 5070	75 - 160	
		113th H.	O 6 b 7556	N 18 a 3070	75 - 160	
		113th H.	J 26 c 5570	N 18 a	90 - 186	
		H.Q.	I 24 b 6000	N 18 c 0060		
		53rd	J 26 c 1637	N 18 a 8020	90 - 175	
		54th	I 30 a 8708	N 18 d 5000	95 - 165	
		55th	I 30 b 2144	N 18 c 4080	92 - 160	
		114th(4)	I 36 c 3017	N 18 c 2080	80 - 150	
LEFT GROUP	298th ARMY Bde. R.F.A.	H.Q.	I 30 a 8 3	J 13 b 1090(F)	114 - 178	Lieut.-Col. H.V. De SATCE, D.S.O.. Major F.D. THOMAS Major E.W. PENDLETON Major C. MOORE Major E.J. NOLAN
		A/298	J 19 a 8565	H 23 a 6 1 (R)		
		B/298(2)	J 14 c 5050	I 20 b 5 8	110 - 178	
		(2)	J 21 b 1010			
		(2)	J 14 d 1500			
LEFT GROUP	335th Bde. R.F.A.	H.Q.	J 14 b 4010	H 31 d 4 5		Lieut.-Col. W.S.L. ASCHWANDEN DSO. Major P.J. CLIFTON, D.S.O.. Major S.L. KEYMER Major I.K. FLYNN Major A.J. COWEN, D.S.O.. Lieut.-Col. LASSELLES, D.S.O.. Major LAFFERTY Major PALMER, D.S.O.. Lieut. PONTOR
		A/335	J 15 c 1050	BUSSY	115 - 180	
		B/ "	J 15 a 9070	BUSSY	125 - 190	
		C/ "	J 15 b 1060	BUSSY	120 - 185	
LEFT GROUP	4th Bde. R.H.A.	H.Q.	J 14 c 3080			Lieut.-Col. LASSELLES, D.S.O.. Major LAFFERTY Major PALMER, D.S.O.. Lieut. PONTOR
		"M" Bty.	J 14 d 8 4	H23 b 9 8	115 - 185	
		"K" Bty.	J 14 c 9 1	H 24 a 6 8	110 - 180	
MOBILE RESERVE	13th Bde. R.H.A.	H.Q.		H 34 c 0 0		Lieut.-Col. J.G.B. ALLARDYCE, DSO. Major A.W. STRAUBENZEE, DSO. Major A.H. BURNE, D.S.O.. Major A. ARCHDALE.
		"A"		N 17 d 5 6		
		"U"		Between Rly. & m. road in H 23 b and d.		
LEFT GROUP	4th Aust. M.T.M. Btys.	7th Bty.	I 34 c 7090		136 - 178	Captain S.J. FOX Captain W. PINDER
		8th Bty.	P 8 b 0315) P 8 b 1035) P 4 d 1 0) J 29 c 1500) J 28 b 2050) J 26 b 2560)	One mortar at each position.	72 - 112 118 - 158 112 - 162 175 - 215 175 - 215	
LEFT GROUP	ANTI-TANK GUNS.	15-pr.	J 34 a 8 4		0 - 180	
		6"pr. Hotchkiss	P 15 b 2 2 J 29 c 5550			
LEFT GROUP	4th Aust. D.A.C.	H.Q. No. 1		H 22 b 2 7		Lieut.-Col. H.V. VERNON, D.S.O. Captain H.S. DAVEY Captain D.E. AIKINS Captain A.S. FORD.
		No. 2 S.A.A.		H 22 b (RIVERY) H 28 b 2 5		
LEFT GROUP	189th B.A.C. 298th B.A.C. 4th B.A.C. 16th B.A.C.			H 28 b 2 5		Lieut. J.T. JOHNSON Captain B.J. KEMPSTER Captain R.A. GRAY.
				N 8 d Central		
				N 12 d 0 7		
				N 4 c and N 3 d.		

The above CANCELS 4th Australian Divisional Artillery LOCATION STATEMENT of 2nd July 1918 which should be DESTROYED.

Units will please notify this Office immediately of any change in the above.

ACKNOWLEDGE on form attached.

Ch Rowan

Lieut., Staff-Lieut.,
4th Australian Divisional Artillery.

	UNIT	Battery	Gun location	Wagon lines	Arc of fire grid bearings (degrees)	Officer Commanding.	
RIGHT GROUP	10th Aust. F.A. Bde.	H.Q.	O 10 a 97			Lieut.-Col. T.I.C. WILLIAMS, D.S.O.	
			Hospice	H 29 a 84			
		37th	O 18 a 4620	H 36 a 89	65 - 120	Captain F.J.M. McADAM	
		38th	O 18 a 0027	N 15 d 5575	65 - 120	Captain G.W. HALL.	
		39th(2)	O 17 a 3024			Major C.H. SPURCE	
		(2)	O 17 c 3080	N 5 d 6510	70 - 115		
		(2)	O 17 a 3020				
	110th How.	O 12 c 6216	H 29 a 2050	60 - 140		Major E.K. SMART. M.C.	
	189th Bde. (ARMY) R.F.A.	H.Q.	H 34 b 48				Lieut.-Col. L.T. RAIKES, D.S.O.
		34th	O 17 d 5593	O 2 c 4090	57 - 178	Major M.J.R. WOOD	
B/189(4)		O 17 b 1035	O 2 b 1025	70 - 120	Major R.R. HOARE, M.C.		
(2)		O 18 a 4396					
D/189		O 17 b 25	O 2 c 4090	24 - 36	Capt. G.W.F. BLYTHE		
C/189	On duty as Depot Battery at Vth ARMY Artillery School.						
CENTRE GROUP	13th Aust. F.A. Bde.	H.Q.	I 29 c 9010	N 17 d 7050		Lieut.-Col. H.C. GADBY, D.S.O.	
		49th	O 6 d 6248	N 18 a 8030	70 - 150	Major H.V. CATLIFF, D.S.O.	
		50th	O 6 d 9500	N 18 c 5070	75 - 160	Major H. RETCHFORD	
		51st	O 3 b 7556	N 18 a 3070	75 - 160	Major E.G. LUMSTER	
		113th H.	J 26 c 5570	N 18 a	90 - 186	Major A.R. LESCHEN	
14th Aust. F.A. Bde.	H.Q.	I 24 b 6000	N 18 c 0060			Lieut.-Col. F.A. DUREHAM, D.S.O.	
	53rd	J 26 c 3030	N 18 a 8020	90 - 175	Major L.E. LEVIE, D.S.O.		
	54th	J 25 b 9740	N 18 d 5000	95 - 165	Captain N.L. NICHOLSON		
	55th	J 26 d 0385	N 18 c 4080	92 - 160	Major MCCORMACK, D.S.O.		
	114th H.	I 36 c 3030	I 20 b 6050	80 - 150	Major DREYER, D.S.O.		
LEFT GROUP	11th Aust. F.A. Bde.	H.Q.	I 23 d 6020			Major P.J. ROSS, M.C.	
		41st (2)	J 21 c 2040	I 24 b 5080 (R)	85 - 165	Captain A.V. RICHARDSON.	
		(4)	J 21 a 9025	I 13 c 2020 (R)			
		42nd	J 21 c 8383	I 24 b 4060 (R)	80 - 170	Major S.F. HODGERS, D.S.O.	
		43rd	J 23 c 7040	H 24 c 3030 (R)			
		J 23 c 8060 (R)	83 - 162	Major C.R. TURNER			
		H 18 d 8000 (R)					
	111th (2) How. (2)	J 26 c 3085	I 21 b 6050	75 - 170	Captain W.E. COX		
	(2)	J 26 c 3994					
	(2)	J 26 c 6383					
		J 27 b 6815	(Anti-tank gun 15-pr.)				
SUPERIMP GROUP	18th Bde. R.F.A.	H.Q.	I 35 c 63	H 34 c 00		Lieut.-Col. J.G.B. ALLARDYCE, DSO	
		"A" Bty.	P 7 c 18	N 17 d 56		Major A.W. STRAUENZEE, D.S.O.	
		"Q" Bty.	J 31 b 64	Between Rly. & m. road in		Major A.H. BURNE, D.S.O.	
		"U" Bty.	J 26 d 44	H 23 b and d.		Major A. ARCHDALE	
RESERVE BRIGADE	298th ARMY Bde. R.F.A.	H.Q.	I 30 a 83			Lieut.-Col. H.V. De SATGE, D.S.O.	
		A/298		H 23 a 61		Major F.D. THOMAS	
		B/298		I 20 b 58		Major E.W. PENDLETON	
		C/298		H 28 d 44		Major C. MOORE	
	D/298		I 14 d 4050		Major E.J. NOLAN		
T. MORTARS	4th Aust. M.T.M. Btys	D.T.M.O.	I 34 c 7090			Captain K. EWAN	
		7th Bty.	P 16 a 1575	One mortar at each position	72 - 176	Captain W. PINDER	
			P 10 c 3524				
			P 10 a 9070				
	8th Bty.	P 4 c 5060					
		J 35 c 8085		112 - 215	Captain W.H. FELSTEAD		
		J 29 c 4500					
		J 29 c 1500					
		J 30 d 2035					
	ANTI-TANK GUNS.	15-pr.	P 20 b 7750		0 - 180		
		6-pr.	P 15 b 22				
		Hotchkiss	J 29 c 5252				
	4th Aust. D.A.C.	H.Q.		H 22 b 27		Lieut.-Col. H.V. VERNON, D.S.O.	
No. 1			H 22 b		Captain H.S. DAVEY		
No. 2			H 22 b		Captain D.E. AIKINS		
S.A.A.			RIVERY M 25 d 58		Captain A.S. FORD		
	189th B.A.C.			H 28 b 25		Lieut.-J.T. JOHNSON	
				N 8 d Central		Captain B.J. KEMPSTER	
				N 4 c & N 3 d		Captain R.A. GRAY.	
	No. 1 Sect.			H 34 b 57			
	5th Aust. D.A.C.						

over

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APPENDIX

This LOCATION STATEMENT cancels that issued on 7th JULY 1918 which should be DESTROYED.

Any alteration in these locations will be forwarded to this Office, please.

ACKNOWLEDGE on form attached.

C. Rowan Licut.,
Staff-Lieut.,
4th Australian Divisional Artillery.

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REFERENCE MAP :-
Sheet 62D, 1/40,000.

LOCATION STATEMENT.

Headquarters -- (3rd Aust. D.A.) BUSSY-les-DAOURS

HEADQUARTERS,
July 18th (Midnight).

UNIT	Battery	Gun location	Wagon Lines	Arc of fire grid bearing	OFFICER
<u>RIGHT GROUP</u>	H.Q.	O 10 b 0 4			
<u>189th ARMY Bde. R.F.A.</u>	H.Q.	O 10 b 0 4	H 34 b 4 8		Lieut.- Col. J.T. RAIKES, D.S.O..
	34th	O 17 d 5593	H 28 d 8 3	58 - 108	Lieut.- Col. J.T. RAIKES, D.S.O..
	B/189	O 17 b 1035 (4)	H 28 c 6 4	70 - 120	Major M.J. R. WOOD
		O 18 a 4396 (1)			Major R.R. HOARE, M.C..
	D/189	O 17 b 2 5 (4)	H 28 b Cent.	60 - 125	Bapt. G.W.F. ELYTHE
	C/189	O 18 b 4 9 (2)			
		Depot Battery	Vth ARMY Artillery School.		
<u>7th Aust. F.A. Brigade.</u>	H.Q.	O 10 a 9 7			Major W.L. MARFELL
	25th	O 18 a 4620	H 36 a 8 9	65 - 120	Captain D.L. DAVIES, M.C..
	26th	O 18 a 0027	N 15 d 5575	65 - 120	Major H.J.H. GLOVER, D.S.O..
	27th	O 24 b 3797	N 5 d 6510	70 - 115	Major J. DOHERTY, M.C..
	107th H.	O 12 c 6216	H 29 a 2050	60 - 140	Captain H. SOLLEY.
<u>LEFT GROUP.</u>	H.Q.	I 24 b 6000			Lieut.-Col. W.G. ALLSOP, D.S.O..
<u>8th Aust. F.A. Brigade</u>	H.Q.	I 24 b 6000	N 18 c 0060		" " " " " "
	29th	J 26 c 3030	N 18 a 8020	90 - 175	Major T. SLANEY.
	30th	J 25 b 9740	N 18 d 5000	95 - 165	Major S.J. WALKER, D.S.O..
	31st	J 26 d 0385	N 18 c 4080	92 - 160	Major S.G. ROWE, D.S.O..
	108th H.	I 36 c 3030	I 20 b 6050	80 - 150	Major A.W. ANDSLEY
<u>3rd ARMY Bde.</u>	H.Q.	I 23 d 6020			Lieut.-Col. STEVENSON, D.S.O..
	7th (2)	J 21 c 2040	I 24 b 5080 (F)	85 - 165	Major A.P. CRISP, D.S.O..
	(4)	J 21 a 9025	I 13 c 2020 (R)		
	8th	J 21 c 8383	I 24 b 4060 (F)	80 - 170	Major C.G. STEWART, M.C..
			H 24 c 3030 (R)		
	9th	J 33 c 7040	I 23 c 8060 (F)	83 - 162	Captain T.W. FAULKNER, M.C..
			H 18 d 8000 (R)		
	103rd (2)	J 26 c 3086		75 - 170	Major P.E. COOPER
	(2)	J 26 c 3994	I 21 b 6050		
	(2)	J 26 d 7515			
		J 27 b 6815	(Anti-tank gun - 15-pr.)		
<u>SUPERIMPOSED Gp.</u>	H.Q.	I 35 c 6 3	H 34 c 0 0		Lieut. Col. J.G.B. ALLARDYCE, DSO.
<u>16th Bde. R.H.A.</u>	"A" Bty.	P 7 c 1 8	O 11 a 8 5	92 - 152	Major A.W. STRAUBENZEE, D.S.O..
	"Q" "	J 31 b 6 4	I 32 d 6 4	78 - 140	Major A.H. BURNE, D.S.O..
	"U" "	J 26 d 4 4	I 23 d 4 7	90 - 130	Major A. ARCHDALE.
<u>RESERVE Bde.</u>	H.Q.	I 15 d			Lieut.-Col. H.V. DeSATGE, D.S.O..
<u>298th ARMY Bde.</u>	A/298		H 23 a 6 1		Major F.D. THOMAS
	B/ "		I 20 b 5 8		Major E.W. PENDLETON
	C/ "		H 28 d 4 4		Major C. MOORE
	D/ "		I 14 d 4050		Major E.J. NOLAN.
<u>3rd Aust. T.M. Batteries.</u>	D.T.M.O.	I 34 c 7090			Capt. R.S. SCARR, M.C..
	5th Bty.	P 16 a 1575)	One mortar at each position	72 - 176	
		P 10 c 3524)			
		P 10 a 9070)			
		P 4 c 5060)			
	6th Bty.	J 35 c 8085)		112 - 215	
		J 29 c 4500			
		J 29 c 1500			
		J 30 d 2035			
<u>ANTI-TANK GUNS.</u>	15-pr.	P 20 b 7750		0 - 180	
	6 -pr.	P 15 b 2 2			
	Hotchk.	J 29 c 5252			
<u>3rd Aust. D.A.C..</u>	H.Q.		H 22 b 2 7		Major A.B. SANDFORD, D.S.O..
	No. 1		H 22 b		Capt. A.D. DUNN
	No. 2		H 22 b		Capt. C.G. FONTON
	S.A.A.		H 2 b 4 2 . 1		Capt. M. YOUNG.
16th B.A.C..			N 4 c & N 3 d		Capt. R.A. GRAY
189th B.A.C..			H 28 b 2 5		Lieut. J.T. JOHNSON
298th B.A.C..			N 8 d Cent.		Capt. B.J. KEMPSTER
3rd B.A.C..			H 16 c 8 2		Capt. D.A. ROBERTSON

PREVIOUS LOCATION STATEMENTS ARE CANCELLED AND SHOULD BE DESTROYED.
ACKNOWLEDGE (to 3rd Aust. D.A.) on form attached.

Please notify D.A.H.Q. of any alterations in the above locations.

C.M. Rowan Lieut.,
Staff-Lieut., "B" Div. Artillery.

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APPENDIX 9

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY. COPY NO.....

SECRET.

HEADQUARTERS,
16th July 1918 (Midnight).

REFERENCE MAP
AMIENS, 1/100,000 & Sheet 62D.

4th Aust. D.A.H.Q. -- RENANCOURT.

<u>Unit</u>	<u>Location</u>	<u>Wagon Lines.</u>
<u>10th Aust. F.A. Bde.</u>	(Attached 5th Aust. Div. - "C" D.A.)	
Headquarters	J 1 c 5010	C 25 d 5050
37th Battery	J 16 a 0732	I 1 a 1090
38th Battery	J 15 a 4453	B 24 d 6080
39th Battery	J 9 d 4313	H 6 b 6065
110th How. "	J 9 d 0697	H 6 b 3040
<u>11th Aust. F.A. Bde.</u>	(Attached 5th Aust. Div. - "C" D.A.)	
xxxxxxx		
Headquarters	J 8 b 1555	FRANVILLERS
41st Battery	J 4 c 2000	"
42nd Battery	J 14 b 8000	C 21 c 5050
43rd Battery	J 4 d 1080	C 26 b 0065
111th How. " (2)	J 9 a 8045	
" (2)	J 9 c 8350	C 21 c
" (2)	J 8 b 5376	
<u>4th Aust. D.R.M.O.</u>	N 24 b 2 7	
(attached 2nd Div. "A" Div. Sector).		
<u>4th Aust. D.A.C.</u>		
Headquarters	H 6 b 7 6	
No. 1 Section	H 12 Central	
No. 2 "	H 6 c 5 5	
B.A.A.	M 3 c 7 9	

Ch Rowland Lieut.,
Staff-Lieut.,
4th Australian Divisional Artillery.

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.HEADQUARTERS,
9th July 1918.NOTES
on THE AMMUNITION IN USE
1st JULY 1918.(a) 18-pr. Q.F..1. 18-pr. Q.F. Marks I and II.

The natures of the component parts of a round of ammunition at present in use or to be issued are as follows :-

SHELL -- H.E..
Shrapnel (Marks II to XII)
Chemical shell Mark II
Incendiary shell
Smoke shell.

Although successful tests have been carried out with Chemical Shell and Incendiary Shell, these natures have not yet been issued to Batteries of 4th Aust. Div. Artillery.

CHARGES -- Cordite M.D., Size 8
N.C.T. Size 7

FUZES -- No. 80 Aluminium (T and P.)
No. 80 Brass (T and P.)
No. 85 (T and P)
No. 100 - No issue since 1917.
No. 101 Brass
No. 101E Brass.
No. 101E Cast iron - Withdrawn in Feb. 1918
but re-issued after successful tests.
No. 105 - Not yet on issue.
No. 106 Brass
No. 106 Cast Iron - Issued only in small quantities to date.

2 WEIGHTS :-

(a) SHELL. In compilation of Range Tables, Shrapnel with Fuze T. and P. 80 (aluminium) weighing 18-lbs 8-ozs. is taken as the standard.

/Normal weight filled

2.

Normal weight filled and fuzeed :-

	lbs.	Ozs.	Dr.
<u>Shrap. Fuze T & P 80 (aluminium)</u> ...	18	8	-
do. 80 (brass) ...	19	4	4
do. 85 ...	18	8	-
H.L. Fuze 100 and 101 ...	18	8	-
do. Fuze 103 ...	18	3	6
do. Fuze 106 (brass) ...	17	15	8
do. do. (cast iron) ...	17	9	9
<u>Incendiary Shell</u> ...	18	10	11 $\frac{1}{2}$

At the present date 18-pr. shell with fuzes bearing the white and orange labels to indicate normal and heavy groups respectively are making their appearance. These labels are the result of an endeavour to classify shrapnel in two subdivisions by weight, a light fuze being fitted in a heavy shell and vice versa, and so obviate the many difficulties previously experienced consequent on large variations in the weight of projectiles of the same type.

(b) CHARGES.

	lbs.	Ozs.	Dr.
Cordite M.D. Size 8 ...	1	3	15
H.C.T. Size 7 ...	1	10	0

3.

COMBINATIONS OF SHELL and FUZES :-

- (a) Shrapnel other than Mark XII and Fuze 85. (The majority of T. & P. fuzes issued up to Feb. 1918 for use with 18-pr. shrapnel were No. 85, but since that date no further issues have been made. All 85 fuzes on hand have now been withdrawn).
- (b) Shrapnel other than Mark XII and Fuze 80 brass.
- (c) Shrapnel other than Mark XII and Fuze 80 aluminium.
- (d) Shrapnel Mark XII and Fuze 80 brass.

(NOTE -- No. 85 Fuzes are not fitted in Mark XII shrapnel. Mark XII shrapnel should not be issued with No. 80 aluminium fuzes; if however they are issued - due to some unforeseen cause - a correction is necessary. See CORRECTION Heading).

- (e) H.E. with all fuzes of 100 type.
- (f) Chemical shell when issued to be fitted with No. 106 (cast iron).

H

3.

(g) Incendiary Shell fitted with fuze 80.

(h) Smoke shell with 106 and 101 E.

4. COMBINATIONS FOR SHELL AND CHARGES :-

(a) All natures with the exception of Incendiary
 Cordite M.D. Size 8 1-lb. 6 ozs. 15 dr.
 or N.C.T. Size 7 1-lb. 10 ozs.

(b) Incendiary - N.C.T. size 7

(c) The supply of propellant at present on issue consists chiefly of N.C.T. but is likely to be shortly superseded by a new cordite propellant (Research Department "B" Mixture, square flaked).

5. MUZZLE VELOCITIES :-

(a) The M.V. for which the Range Table is compiled in the case of all natures with the exception of incendiary shell is 1615 f.s. and charges are adjusted to give a M.V. of 1660 f.s. at 80°F. in a new gun.

(b) In the case of Incendiary Shell the M.V. for which the range table is compiled is 1850 f.s. and the M.V. in a new gun at 60°F. is 1859 f.s..

6. CORRECTIONS for difference in ranging due to difference in weight and shape of fuzes :-(a) Shrapnel :- Shrapnel fuze No. 80 aluminium (weight 18-lb. 8 ozs.) taken as a standard.

/Shrapnel other

APPENDIX IX

SHRAPNEL OTHER THAN MARK XII.

	Range	Correction
No. 88	(Below 2000 yards	± 0
	(2000 - 4000	+ 25
	(4000 - 5000	+ 50
	(5000 - 6000	+ 75
	(6000 and above	+100
No. 80	(Below 2500	+ 25
	(2500 - 3500	± 0
Brass	(3500 - 5500	- 25
	(5500 and above	- 50

MARK XII SHRAPNEL.

brass

No. 80/fuzes in Mark XII Shrapnel range the same as No. 80 aluminium fuzes in other marks of shrapnel.

	Range	Correction
No. 80	(Below 3500	- 25
	(3500 - 5500	± 0
	(5500 - 7000	+ 25
	(7000 - 8000	+ 50

(b) H.E. :-

Shrapnel fuze No. 80 aluminium (18-lb. 8 ozs.) taken as standard :-

The following table must be taken as a guide only :-

No. 101

5.

APPENDIX IX

No. 101		No. 103		No. 106 (Brass)		No. 106 (Cast iron)	
Range	Corr.	Range	Corr.	Range	Corr.	Range	Corr.
1000 - 3000	- 25	2700 - 2400	- 25	500 - 3800	- 25	500 - 120	- 25
3000 - 5200	- 50	2400 - 6300	- 50	3800 - 4700	± 0	1200 - 2200	- 50
5200 - 6700	- 75	6300 - 8300	- 75	4700 - 5800	+ 25	2200 - 3600	- 25
6700 - 7500	- 100	8300 - 9500	- 100	5800 - 8000	+ 50	3600 - 4200	± 0
7500 - 8000	- 125			8000 - 9500	+ 75	4200 - 4600	+ 25
8000 - 8500	- 150					4600 - 5100	+ 50
8500 - 8800	- 175					5100 - 5600	+ 75
8800 - 9500	- 200					5600 - 6300	+ 100
						6300 - 7100	+ 125
						7100 - 7900	+ 150
						7900 - 8700	+ 175
						8700 - 9500	+ 200

(c) Chemical Shell Mark II. No. 106 (cast iron).

Range	Correction
500 - 1000	+ 25
1000 - 2000	+ 50
2000 - 3000	+ 75
3000 - 3500	+ 100
3500 - 4000	+ 125
4000 - 5000	+ 150
5000 - 5500	+ 175
5500 - 6000	+ 200
6000 - 6500	+ 225
6500 - 7500	+ 250
7500 - 8000	+ 275
8000 - 8500	+ 300
8500 - 9000	+ 350
9000 - 9500	+ 375

6.

NOTESON THE AMMUNITION IN USE
1st JULY 1918.(b) 4.5" How. Q.F..

1. 4.5" Q.F. Field Howitzer.

The nature~~s~~ of the component parts of a round of ammunition at present in use, or to be issued, are as follows :-

SHELL -- H.E..
 Shrapnel - Not yet issued.
 Chemical Shell (N.C., C.G. and C.B.R.)
 Incendiary Shell - not yet issued.
 Smoke shell.
 Star shell - not yet issued.

CHARGES.-- Cordite M.D. sizes $2\frac{1}{2}$ or $4\frac{1}{2}$.
 N.O.T. Size 5.
 Ballistite Size A 71
 R.D.B. Flake $2\frac{1}{2}$ /50

FUZES -- T. and P No. 82 - not yet issued.
 T and P No. 83/44 - not yet issued.
 delay & (No. 100 - No issue since 1917.
 non- (No. 101
 delay (No. 101E
 No. 106

2. WEIGHTS :-(a) SHELL :-

In compilation of range tables, H.E. shell Mark V with No. 101 fuze weighing 35 lbs is taken as the standard.

Normal



7.

(a) SHELL (contd.)

Normal weight filled and fuze :-

H.E. fuze 100 type	35 lbs.
Incendiary R.L. design	
No. 24,346 with fuze	
T. & P. No. 82.	23 lbs. 10 ozs..

(b) CHARGES :-

	I		II		III		IV		V	
	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.
Cordite M.D. Size) 2½ & 1½)	5	1½	7	3½	8	15½	11	9	15	14
N.C.T. 5	7	0	8	8	10	5	13	1	1-2-	4
Ballistite Size A 71	5	4½	6	7	7	14½	10	3½	14	2
R.D.B. Flake 2½/50	6	0	7	3	8	14	11	8	15	12

3. COMBINATIONS OF SHELL AND FUZES :-

- (a) H.E. shell with 101, 101E and 106.
Time H.E. with A.A. fuze T. and P; 83,44.
- (b) Shrapnel when issued will be fitted with Fuze T. & P.
No. 82.
- (c) Chemical shell with No. 106.
- (d) Incendiary shell when issued will have fuze T. & P.
No. 82.
- (e) Smoke shell with No. 101E and 106.
- (f) Star shell will be fitted with T. & P. No. 82.

4.....



8.

4. COMBINATIONS OF SHELL AND CHARGES.

(a) The various natures of propellants are interchangeable for use with various natures of shell with the following exceptions :-

- Incendiary Shell - N.C.T. 5 only.
- Star Shell - Cordite M.D. 2½ and 4½ only.

(b) Up to January 1918 the propellant supplied for use by Batteries of the 4th Aust. Div. Artillery consisted chiefly of Ballistite with a percentage of N.C.T. and Cordite M.D., while between February and May 1918 the greatest percentage of propellant sent forward consisted of N.C.T.. In June 1918 some R.D.B. square flake began to make its appearance and the supply is being gradually increased.

At the present time the approximate percentages of propellants being supplied for the use of 4.5" Hows. are as follows :-

Cordite R.D.B.	S.F.	50%	-
N.C.T.		30%	
Cordite M.D.		15%	
Ballistite		5%	

5.....

9.

Comparison of shooting with different natures of propellants

Various theories have been advanced as to the relative ranging effects produced by the use of different natures of propellants with the 4.5" Q.F. Howitzer, but the fact that no definite table of values for different charge temperatures and different states of wear has been established is evidenced by the following notes taken from the Range Table.

- (a) RANGE TABLE $\frac{40}{3705}$ W.O. NOTE. As it is impossible to adjust charges of different natures of propellants to give the same muzzle velocities at all charge temperatures and at every state of wear of the Howitzer, care should be taken to verify the range if it is found necessary to change from one nature of propellant to another.
- (b) Addendum to above RANGE TABLE $\frac{40}{5687}$ W.O. Minute 22, 100

As a result of trials in several Howitzers in different states of wear, it was found that with the full charge of N.C.T. 5 the average drop in velocity was approximately 7 f.s. for each 0.01 inch wear at 1 inch from commencement of rifling. When firing cordite charges the drop in velocity is probably more than the above, but no quantitative information can be given.

- (c) RANGE SCALE for Incendiary Shell $\frac{40}{3180}$ W.O.

NOTE :- The Ballistite and cordite charges may give a slightly different M.V. to the N.C.T. charge; the scales may however, be taken to be approximately correct for these charges.

6. MUZZLE VELOCITIES :-

- (a) The M.V. for which the Range table is compiled in the case of all natures with the exception of Incendiary Shell is as under :-

H.E. Shell .

10.

H.E. Shell Mark V No. 101 Fuze :-

	<u>V Charge</u>	<u>IV Charge</u>	<u>III Charge</u>	<u>II Charge</u>	<u>I Charge</u>
f.s.	1010	829	709	630	559

Incendiary Shell R.L. design No. 24, 346. Fuze T. & P. No. 62 :-

- M.V. at 60°F.

	<u>V Charge</u>	<u>IV Charge</u>	<u>III charge.</u>	
f.s.	1176	975	845

7. CORRECTION FOR DIFFERENCE IN RANGE :-

The correction for difference in range due to the difference in shape of fuze 106, with H.E. shell Mark V is as follows :-

Range	V	IV	III	II	I
1000				-25	-25
1500				-25	-25
2000				-25	-25
2500					
3000					
3500			+25		
4000		+25	+25		
4500		+25			
5000	+25	+50			
5500	+25				
6000	+25				
6500	+50				
7000	+50				

8

11.

8. DRIVING BANDS.

For the past three months projectiles have been supplied in the field fitted with a new type of driving band and at the present time approximately 50% of the new type are being sent forward.

The following minute has been issued by the War Office as a guide to the ranging properties of the shell fitted with the new band :-

" 40
W.O.
5920. Minute 17,303.

In a new gun with the highest charge, shell with the original design of driving band (C.O.W. 653 F) range the same as those with the new design of driving band (R.L. 25276).

With the lower charges the new band ranges farther, the amount increasing as the gun wears."

9. TABLE for calculating the approximate equivalent full charge value of reduced charges for different propellants

CHARGE	Number of reduced charges equiv. to 1 full charge					
	Cordite	RDB	Cordite	M.D.	N.C.T.	Ballostite
1st	NO		32		24	24
2nd			20		20	20
3rd	DATA.		12		12	12
4th			4		4	4
5th			1		1	1

IX

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COPY

APPENDIX

of WIRE No. W.B. 1 of 3/7/1918 forwarded to Units under control of "B" Div. Artillery :-

16th R.H.A.. SOUTHERN Group RIGHT Group.	CENTRE Group. LEFT Group. 4th Aust. Dist. T.M.O.	4th Aust. D.A.C.. 17th D.A.C.. (No. 1 Section).		
W.B. 1	4/7/1918			
THE CONGRATULATIONS AND EXCELLENT BIRDWOOD COMMANDER AND Y BEST BRILLIANT DIVISIONAL ADD TO	ARMY YOUR CONGRATULATIONS HIS THE	COMMANDER CONVEYED MEN WORK AND BOTH YOUR CONGRATULATIONS WORK COMMANDER OWN ABOVE	WISHES TO ON AAA THE SEND COMMANDS ON AAA WISHES CONGRATULATIONS APPRECIATIONS.	HIS YOU YOUR GENERAL CORPS YOU THEIR YOUR THE TO
AAA.				
From 4th Aust. Div. Artillery.				

Signed
T.A.J. PLAYFAIR.
Brigade-Major.