

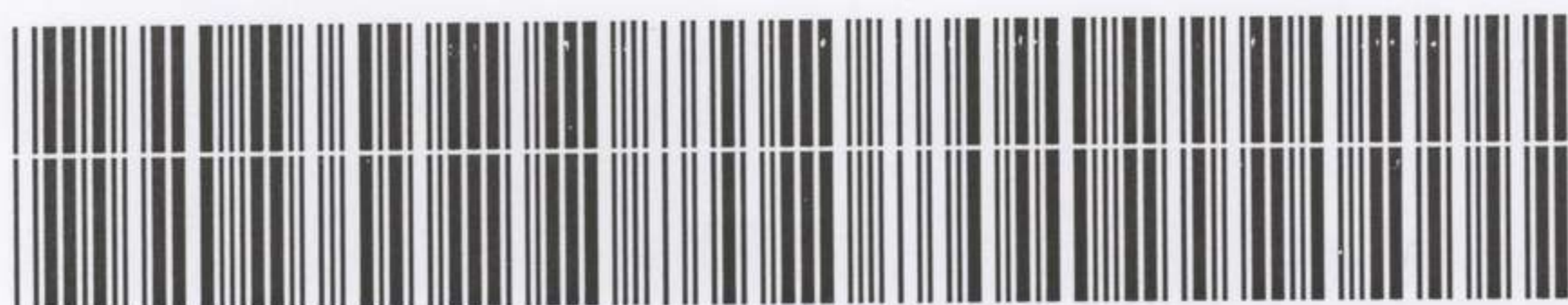
AWM4
**Australian Imperial Force unit war diaries,
1914-18 War**

Artillery

Item number: 13/13/26 Part 1

Title: Headquarters, 4th Australian
Divisional Artillery

July 1918



AWM4-13/13/26PART1

WAR DIARY

Army Form C. 2118.

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Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

or INTELLIGENCE SUMMARY.

(Erase heading not required.)

Summary of Events and Information

Remarks and references to Appendices

Place

Date

Hour

VOL. XXX.

- ORIGINAL -

WAR DIARY

of

4TH AUSTRALIAN DIV. ARTY HQRS.

for month of

Compiling Officer's Signature)

C.H. Rowan.

JULY

1918.

Commanding Officer's Signature)

W.L. Buzgen

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

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

WAR DIARY

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices																														
<u>BUSSY- les- DAOURS.</u>	<u>July 1918.</u> 1st		<p><u>VOL. XXX.</u></p> <p>The Divisional Artillery is flanked on the Right by the 3rd Australian Divisional Artillery (Brigadier-General H.W. GRIMWADE, C.B., C.M.G.) covering "A" Divisional Sector AUSTRALIAN CORPS, and on the Left by the 2nd Australian Divisional Artillery (Brigadier-General O.F. PHILLIPS, D.S.O.) covering "C" Divisional Sector, AUSTRALIAN CORPS.</p> <p>The Artillery under command of the C.R.A., 4th Australian Division (Brigadier-General W.L.H. BURGESS, C.M.G., D.S.O.) is composed as follows :-</p> <p style="text-align: center;"><u>IN THE LINE --</u></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"><u>RIGHT GROUP</u></td> <td style="width: 30%;"><u>10th Aust. F.A. Bde.</u></td> <td style="width: 50%;"><u>Commanded by Lieut.-Col. T.I.C. WILLIAMS, D.S.O..</u></td> </tr> <tr> <td>Sub-</td> <td>189th ARMY Bde. R.F.A.</td> <td>" " Lieut.-Col. H. RAIKES, D.S.O..</td> </tr> <tr> <td><u>Groups.</u></td> <td>236th Brigade, R.F.A.</td> <td>" " Lieut.-Col. A.H. BOWRING.</td> </tr> <tr> <td></td> <td>(78th Brigade, R.F.A.</td> <td>" " Major MARSHALL, D.S.O..</td> </tr> <tr> <td>17th Div. Art.</td> <td>(79th Brigade, R.F.A.</td> <td>" " Lieut.-Col. L.E. WARREN, D.S.O..</td> </tr> <tr> <td> </td> <td></td> <td></td> </tr> <tr> <td><u>CENTRE GROUP</u></td> <td><u>13th Aust. F.A. Bde.</u></td> <td><u>Commanded by Lieut.-Col. H.O. CADDY, D.S.O..</u></td> </tr> <tr> <td>Sub-</td> <td>11th Aust. F.A. Bde.</td> <td>" " Major P.J. ROSS, M.C..</td> </tr> <tr> <td><u>Groups.</u></td> <td>14th Aust. F.A. Bde.</td> <td>" " Lieut.-Col. DERHAM, D.S.O..</td> </tr> <tr> <td></td> <td>150th ARMY Bde. R.F.A.</td> <td>" " Lieut.-Col. F.A. DIXON, D.S.O..</td> </tr> </table> <p style="text-align: right;">LEFT GROUP</p>	<u>RIGHT GROUP</u>	<u>10th Aust. F.A. Bde.</u>	<u>Commanded by Lieut.-Col. T.I.C. WILLIAMS, D.S.O..</u>	Sub-	189th ARMY Bde. R.F.A.	" " Lieut.-Col. H. RAIKES, D.S.O..	<u>Groups.</u>	236th Brigade, R.F.A.	" " Lieut.-Col. A.H. BOWRING.		(78th Brigade, R.F.A.	" " Major MARSHALL, D.S.O..	17th Div. Art.	(79th Brigade, R.F.A.	" " Lieut.-Col. L.E. WARREN, D.S.O..	 			<u>CENTRE GROUP</u>	<u>13th Aust. F.A. Bde.</u>	<u>Commanded by Lieut.-Col. H.O. CADDY, D.S.O..</u>	Sub-	11th Aust. F.A. Bde.	" " Major P.J. ROSS, M.C..	<u>Groups.</u>	14th Aust. F.A. Bde.	" " Lieut.-Col. DERHAM, D.S.O..		150th ARMY Bde. R.F.A.	" " Lieut.-Col. F.A. DIXON, D.S.O..	
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Place	Date	Hour	VOL. <u>XXX.</u>	Summary of Events and Information	Page <u>146.</u>	Remarks and references to Appendices
<u>BUSSY-les-DAOURS.</u> (SOMME)	<u>July 1918.</u>			<u>LEFT GROUP.</u>	<u>298th ARMY Bde. R.F.A.</u>	Commanded by Lieut.-Col. <u>H.V. DE SATGE,</u> D.S.O..
	1st Contd.			<u>Sub-Groups.</u>	235th Brigade, R.F.A.	" " Lieut.-Col. <u>ASHWANDEN,</u> D.S.O..
					14th Brigade, R.H.A.	" " Lieut.-Col. <u>LASSELLES,</u> D.S.O..
					----- <u>IN MOBILE RESERVE.</u>	
				<u>16th Brigade, R.H.A.</u>	-- Lieut.-Col. <u>J.G.B. ALLARDYCE,</u> D.S.O..	
				The 17th Divisional Artillery moved into action in the RIGHT Group on the night July 1st/2nd..		col
	2nd			The C.R.A. made a reconnaissance of the "B" Divisional front.		col
	3rd			Very great aerial activity. Three enemy 'planes were driven down while attempting to fire on one of our observation balloons. The SOUTHERN Group - comprising 23rd ARMY Brigade, R.F.A., "A" Divisional Sector - came under the command of the C.R.A. 4th Australian Division for the ensuing operations. During the night their harassing fire was identical with that of "B" Divisional Sector.		col
	4th			At 3.10 a.m. an attack was made against the high ground east of HAMEL VILLAGE and VAIRE WOOD. The operation was under the command of the G.O.C. 4th Australian Division, the Artillery co-operating with a creeping barrage in depth put down by 15 Brigades of Field		
						/ Artillery.....

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Place	Date	Hour	VOL. XXX.	Summary of Events and Information	Page 147.	Remarks and references to Appendices
BUSSY- les- DAOURS.	July 1918. 4th			<p>Artillery under the C.R.A., 4th Australian Division. The operation was entirely successful and resulted in the capture of</p> <p style="text-align: center;">1500 prisoners (including 40 Officers). 104 Machine Guns. 14 Trench Mortars. 2 77 mm. guns</p> <p>and a quantity of material.</p> <p>The operation is described in APPENDIX I (General BURGESS' report).</p> <p><u>Casualties to Officers</u> : Lieut. L. BRUNTON, M.C. -- Killed.</p> <p>At 10 p.m. the 4.5" Hows. - in co-operation with the Corps Heavy Artillery - gassed the enemy Battery Areas in the CERISSY - WARFUSEE Valley and put down a heavy fire on his forward areas.</p> <p>At 10.30 p.m. a counter-attack was made against our newly-won trench system in P 10 to the East of HAMEL; This completely broke down under our fire and fifty prisoners were taken.</p> <p>During the night our Infantry were very active in patrolling ; several enemy advance posts were raided and prisoners and machine guns brought in.</p>		APP. I.
	5th			<p>The Divisional front was very quiet. Consolidation work was carried out. The 17th Divisional Artillery (78th and 79th Brigades R.F.A.) withdrew to Wagon Lines awaiting orders, and the 150th ARMY Brigade R.F.A. also withdrew and marched to ST SAVEUR R.A. Sub-Area.</p> <p>A special order of the day was issued by the C.R.A. to all Group, Brigade and Battery Commanders of Horse and Field Artillery covering the attack on HAMEL and VAIRE WOOD Plateau. (See letter C 5/41 in APPENDIX IX).</p>	C.P. SCHEME.....	APP. IX.

WAR DIARY

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Place	Date	Hour	VOL. <u>XXX.</u>	Summary of Events and Information	Page <u>147.</u> ^a	Remarks and references to Appendices
<u>Bussy-les-DAOURS.</u>	<u>July 1918.</u>	5th Contd.		C.P. SCHEME Phase 1b was fired during the night.		
				2/Lieut. H.J. REMINGTON, 7th Aust. M.T.M. Battery, evacuated wounded.		COR
		6th		Command of the SOUTHERN Group passed from the C.R.A. 4th Australian Division to the C.R.A. 3rd Australian Division at noon.		
				Captain A.V. RICHARDSON posted to 41st Battery vice Captain D.O.L. KITTO M.C. evacuated wounded.		
				Heavy enemy harassing fire on our trench systems east of HAMEL.		
				Lieut. M.A. FERGUSSON reported to 10th Aust. F.A. Brigade Headquarters for duty.		COR
		7th		C.P. SCHEME Phase 1b fired by all Groups at 3.15 a.m. for 15 minutes. HAMEL heavily shelled by enemy.		
				The French Premier (M. CLEMENCEAU) visited Headquarters 4th Australian Division at BUSSY-les-DAOURS; the C.R.A. was present. (See report of speech in APPENDIX IX).		COR <u>APP. IX.</u>
		8th		At 12.15 a.m. the Artillery covering "B" Divisional Sector AUSTRALIAN CORPS fired in support of a minor operation by the 13th Australian Infantry Brigade, holding the		Sector on.....

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Remarks and references to Appendices

Place	Date	Hour	VOL. XXX.	Summary of Events and Information	Remarks and references to Appendices	
<u>BUSSY les-DAOURS.</u>	<u>July 1918.</u>	8th Contd.		<p>Sector on both banks of the SOMME in front of SAILLY LAURETTE. The attack was entirely successful; the line was straightened out and 2 Officers and 21 other ranks were taken prisoner. Our casualties were very light.</p> <p>At 10.15 p.m. C.P. SCHEME Phase 1b was fired on by all Groups until 10.35 p.m.. The enemy retaliated with a heavy barrage.</p> <p>The following Brigades withdrew from action during the night :-</p> <p>47th (236th Brigade R.F.A. from RIGHT GROUP D.A.. (235th Brigade R.F.A. " LEFT GROUP</p> <p>4th Brigade R.H.A. withdrew from LEFT Group and marched to POULAINVILLE.</p> <p>The C.R.A. made a reconnaissance of the ground captured on July 4th..</p>		
				9th	<p>The 16th Brigade R.H.A. went into action as SUPERIMPOSED GROUP "B" Divisional Sector. No. 1 Section 5th Aust. D.A.C. arrived at BUSSY-les-DAOURS for duty. Artillery of 47th Division left Divisional Area under Corps Orders.</p> <p>Lieut. G.C. BENSON, Medium Trench Mortar Batteries, detached for duty with Headquarters 4th Australian Division.</p>	<i>Cor</i>
				10th	<p>At 9 p.m. the 11th Aust. F.A. Brigade relieved the 29th ARMY Brigade R.F.A. covering the LEFT GROUP; the 298th Brigade - less C/298 Battery - marched to wagon lines to become MOBILE RESERVE.</p> <p>Lieut. N. QUAIL, 111th How. Battery, evacuated wounded.</p>	<i>Cor</i>

/Capt.....

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<u>BUSSY-les-DOURS.</u>	<u>July 1918.</u>	Contd.		<p>Captain K. EWAN assumed command of the 4th Aust. Divisional Medium Trench Mortar Batteries vice Captain S.J. FOX who is posted to 110th How. Battery.</p> <p>Captain W.L. SANDERSON assumed the appointment of Adjutant 11th Aust. F.A. Brigade vice Captain EWAN.</p> <p>C/298 Battery withdrew from LEFT GROUP to Wagon Lines, re-joining 298th Brigade in MOBILE RESERVE.</p> <p>Present composition of Brigades covering the Divisional front is as follows :-</p> <p style="text-align: center;"><u>RIGHT GROUP.</u></p> <p style="text-align: center;">10th Aust. F.A. Brigade. 189th ARMY Brigade R.F.A..</p> <p style="text-align: center;"><u>CENTRE GROUP.</u></p> <p style="text-align: center;">13th Aust. F.A. Brigade. 14th Aust. F.A. Brigade.</p> <p style="text-align: center;"><u>LEFT GROUP.</u></p> <p style="text-align: center;">11th Aust. F.A. Brigade.</p> <p style="text-align: center;"><u>SUPERIMPOSED GROUP.</u></p> <p style="text-align: center;">16th ARMY Brigade, R.H.A..</p> <p style="text-align: center;"><u>IN MOBILE RESERVE.</u></p> <p style="text-align: center;">298th ARMY Brigade, R.H.A..</p> <p>The 10th Aust. Inf. Brigade relieved the 4th and 13th Aust. Inf. Brigades in "B" Div. Sector.</p> <p style="text-align: right;">12th</p>	<p style="text-align: right;">CtoR.</p> <p style="text-align: right;">CtoR.</p>

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<u>BESSY-les-DAOURS.</u>	<u>July 1918.</u> 12th			<p>Information was received that the 4th Australian Divisional Artillery was to be relieved by the 3rd Australian Divisional Artillery in the "B" Sector on the night of 16th/17th July.</p> <p>An attack was made at an early hour in the morning by the French opposite MOREUIL; all objectives were gained.</p> <p>The 9th Aust. Infantry Brigade relieved the 12th Aust. Infantry Brigade in the line "B" Div. Sector.</p>		
	13th			<p style="text-align: center;">Divisional</p> <p>Owing to the system of fortnightly/reliefs (less Artillery) it was found that none of the Australian Divisions were covered by their own Artillery at this period. Steps were taken to rectify this and a simultaneous relief was ordered by Australian Corps to take place between July 13th and 16th..</p> <p>Each Divisional Artillery sideslipped in order to rejoin its own Division, and in the case of the 4th Aust. Divisional Artillery they moved up to cover the 5th Australian Division who are expected to be relieved in a fortnight by the 4th Australian Division. In order to accomplish this, in the case of the 4th Aust. Divisional Artillery, relieving detachments had to be sent in advance to "C" Div. Sector under the command of the Battery Commander, at the same time the remainder under the command of the Battery Captain manned the guns until relieved.</p> <p>At no time during the relief was a gun out of action for a moment on the Corps front.</p> <p>The 13th Aust. F.A. Brigade withdrew from Centre Group "B" Divisional Sector, and moved into Superimposed positions in "C" Divisional Sector.</p> <p>One Section per Battery 8th Aust. F.A. Brigade relieved one Section per Battery of the 14th Aust. F.A. Brigade in "B" Divisional Sector who then marched to "C" Divisional Sector.</p> <p style="text-align: right;">No. 1 Section</p>		

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<u>BUSSY-les-DAOURS.</u>	<u>July 1918.</u>	13th Contd.		<p>No. 1 Section 5th Aust. Divisional Ammunition Column also marched to "B" Div. Sector. (See WARNING ORDER NO. 5). At 10 a.m. command of "B" Divisional Sector passed from the 4th Aust. Div. to the 3rd Aust. Div.. At 9 p.m. re-Grouping of the Artillery covering "B" Div. Sector took place. The 14th Aust. F.A. Brigade was transferred to the LEFT Group, with the 11th Aust. F.A. Brigade as a Sub-Group, command of the LEFT Group passing at that hour from C.O. 11th Aust. F.A. Brigade to C.O. 14th Aust. F.A. Brigade. After the withdrawal of the 13th Aust. F.A. Brigade the CENTRE Group ceased to exist. (See Order No. 173).</p> <p>Captain C. WEBBER assumed command of the 37th Battery vice Captain F.J.M. McADAM wounded and evacuated. Lieut. W. GREENE, 37th Battery, wounded and evacuated. Captain W.R.C. McNAUGHT M.C., 110th How. Battery, was transferred to 38th Battery.</p>	Page 151.	<p><u>APP. VII.</u></p> <p><u>APP. VII.</u></p>
		14th		<p>The remaining Sections of the 8th Aust. F.A. Brigade relieved the remaining Sections of the 14th Aust. F.A. Brigade in the "B" Div. Sector. Command of the LEFT Group passed from C.O. 14th Aust. F.A. Brigade to C.O. 8th Aust. F.A. Brigade at 8 p.m.. The remaining Sections 14th Aust. F.A. Brigade marched to "C" Divisional Area to relieve the 4th Aust. F.A. Brigade. The 3rd Aust. M.T. Mortar Batteries relieved the 4th Aust. M.T. Mortar Batteries covering "B" Divisional Sector.</p> <p>2/Lieut. H.A. GRYLLS is posted to Trench Mortar Batteries from ST JOHN'S WOOD Cadet School.</p>		Lieut. G.D.

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<u>BUSSY-les-DAOURS.</u>	14th	Contd.		2/Lieut. G.D. HEATHORN is transferred to Med. T.M. Batteries from 4th Aust. D.A.C., and Lieuts. G.C. GARVIN and J.P. FULLERTON from T.Ms. to 4th Aust. D.A.C..											
				One Section 4th Aust. D.A.C. was relieved by 3rd Aust. D.A.C. in "B" Div. Sector and relieved one Section of 2nd Aust. D.A.C. in "C" Div. Sector.		C.R.									
<u>RENAN-COURT.</u>	15th			<p>One Section 7th Aust. F.A. Brigade relieved one Section 10th Aust. F.A. Brigade in "B" Divisional Sector who in turn relieved one Section 5th Aust. F.A. Brigade in "C" Div. Sector.</p> <p>The following reliefs were also effected :-</p> <table border="0"> <tr> <td>One Section 11th Aust. F.A. Bde.</td> <td>relieved one Section 3rd ARMY Bde.</td> <td>"C" Div..</td> </tr> <tr> <td>" " 3rd Aust. D.A.C.</td> <td>" " " 4th Aust. D.A.C.</td> <td>"B" Div..</td> </tr> <tr> <td>" " 4th Aust. D.A.C.</td> <td>" " " 2nd Aust. D.A.C.</td> <td>"C" Div..</td> </tr> </table> <p>Command of the Artillery covering "B" Divisional Sector passed from C.R.A. 4th Aust. Division to C.R.A. 3rd Australian Division.</p> <p>D.A.H.Q. Office closed at BUSSY-les-DAOURS at 8 p.m. and opened at RENANCOURT an hour later.</p> <p>Lieut. J.P. FULLERTON, 4th Aust. D.A.C., was evacuated sick.</p> <p>Lieut. F. HUTCHINSON, 4th Aust. M.T.M. Batteries, was transferred to 4th Aust. D.A.C..</p> <p>Lieut. R.J. LORMER returned to duty from Seconded List and re-posted to 11th How. Battery, 11th Aust. F.A. Brigade.</p> <p>The Germans launched an attack in the region of REIMS on a fifty mile front; this operation was only partially successful.</p>	One Section 11th Aust. F.A. Bde.	relieved one Section 3rd ARMY Bde.	"C" Div..	" " 3rd Aust. D.A.C.	" " " 4th Aust. D.A.C.	"B" Div..	" " 4th Aust. D.A.C.	" " " 2nd Aust. D.A.C.	"C" Div..	16th	C.R.
One Section 11th Aust. F.A. Bde.	relieved one Section 3rd ARMY Bde.	"C" Div..													
" " 3rd Aust. D.A.C.	" " " 4th Aust. D.A.C.	"B" Div..													
" " 4th Aust. D.A.C.	" " " 2nd Aust. D.A.C.	"C" Div..													

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<u>RENAN-COURT.</u>	July 1918.			The following reliefs took place :- 2 Sections 7th Aust. F.A. Bde. relieved 2 Sections of 10th Aust. F.A. Bde. "B" Div.. 2 " 10th " " " " 2 " " 5th " " " "C" Div.. 2 " 11th " " " " 2 " " 3rd ARMY Bde. A.F.A. "C" Div.. These moves completed the relief. The personnel of 4th Australian Divisional Artillery is under the command of the C.R.A. 5th Aust. Divisional Artillery. Lieut. C.S. SMITH, 37th Battery, wounded and evacuated.		
	17th			No entry.		C.R.
	18th			Large French attack from Chateau THIERRY to SOISSONS; 300 guns and 20000 prisoners captured.		C.R.
	19th			No entries.		C.R.
	20th					
	21st					
	22nd			4th Aust. Divisional RACE MEETING at ALLONVILLE. Captain K. EWAN, D.T.M.O. evac. sick.		C.R.
	23rd			No entry.		C.R.
	24th			Lieut.-Colonel T.I.C. WILLIAMS, D.S.O. assumed command of 4th Australian Divisional Artillery during the absence of the C.R.A. on leave to ENGLAND. M.M. 2/Lieuts. J.W. MOORE, J.A. BURTON, J.R. FORREST, P.C. SAINT, V. EDWARDS, M.M., and C.L. CAMPBELL (ex ST JOHN'S WOOD Artillery Cadet School) reported from BASE and posted to M. Trench Mortar Batteries.		C.R.
	25th				

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Place	Date	Hour	VOL. <u>XXX.</u>	Summary of Events and Information	Page No. <u>154.</u> Remarks and references to Appendices
<u>RENAN - COURT.</u>	<u>July 1918.</u>				
	25th			Captain K. EWAN, D.T.M.O. 4th Aust. Div., evacuated sick on 10th instant, returned from Field Ambulance.	COR.
	26th)				
	27th)			No entries.	COR.
	28th)				
	29th			The 4th Aust. Divisional Artillery co-operated with 5th Aust. Divisional Artillery in a creeping barrage in depth in support of Infantry operations in "C" Divisional Sector. The enemy's second line defences were penetrated and consolidated. A great number of the enemy were reported to have been killed by the barrage. 4 Officers and 134 other ranks were taken prisoner. 2/Lieut. J.E. MACFARLANE, 37th Battery, evacuated wounded. Lieut. V.G. ELLISTON, 4th Aust. D.A.C., re-joined from Seconded List (Invalidated).	COR.
30th) 31st))			No entries. <u>4th Aust. D.A.H.Q.,</u> <u>1st August 1918.</u>	COR. C.A. Rowan Lieut for Major, Brigade-Major, 4th Australian Divisional Artillery..	

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Place	Date	Hour	VOL. XXX.	Summary of Events and Information	Remarks and references to Appendices
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LIST OF APPENDICES.

- | <u>NO.</u> | <u>SUBJECT.</u> |
|-----------------|---|
| 1. | <u>SUMMARY OF OPERATIONS.</u> |
| II. | <u>BATTLE CASUALTIES DURING THE MONTH.</u> |
| III. | <u>TABLE SHOWING ESTABLISHMENT, EFFECTIVE STRENGTH, CASUALTIES, REINFORCEMENTS RECEIVED AND FINAL EFFECTIVE STRENGTH AT END OF CURRENT MONTH.</u> |
| IV. | <u>SUMMARY OF AMMUNITION EXPENDED DURING THE MONTH.</u> |
| V. | <u>HONOURS AND REWARDS RECEIVED DURING MONTH.</u> <u>VI (DAILY INTELLIGENCE REPORTS DURING MONTH.)</u> |
| <u>VII</u> | <u>ORDERS AND INSTRUCTIONS ISSUED.</u> |
| <u>VIII</u> | <u>"B" DIVISIONAL ARTILLERY DEFENCE SCHEME, AUSTRALIAN CORPS.</u> |
| <u>IX.</u> | <u>MISCELLANEOUS DOCUMENTS, ETC..</u> |

Slit

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

Headquarters,
4th Australian Division.

HEADQUARTERS,
8th July 1918.

GENERAL REPORT

ON THE ACTION OF THE HORSE AND FIELD ARTILLERY COVERING THE
ATTACK BY THE 4TH, 6TH and 11th AUSTRALIAN INFANTRY BRIGADES
ON HAMEL AND VAIRE WOODWARD THE HIGH GROUND TO THE EAST, ON
THE 4TH JULY 1918.

PREPARATION FOR THE ATTACK. :-

1. A considerable concentration of Artillery had to be effected within a very limited time. Surprise effect was essential to success. Visibility was very good during the few days prior to the operation. Periods of darkness very short. Roads were very dusty and much of the forward area under enemy observation.
2. When complete, sixteen Brigades of Horse and Field Artillery were in position covering the "E" Div. Sector plus that portion between the Southern Boundary and the WARFUSEE-ABANCOURT - VILLERS-BRETONNEUX Road. The average range to the "ARTILLERY START LINE" of those Batteries covering the actual frontage of attack, was 2300 yards.
3. The Artillery was organised in four Groups, with the several Brigades constituting the Groups each under its own Commander as a Sub-Group. This system proved most satisfactory, working smoothly and giving prompt and sure control. I consider that this method is indispensable where quick preparations have to be made, and especially so, should open warfare and mobile tactics be likely to develop.
4. The Commands and Constitution of the Groups was as follows :-
 - "SOUTHERN GROUP" -- Lieut.-Col. H.M. BALLINGALL, D.S.O..
 - 23rd ARMY Brigade R.F.A..
 - 179th ARMY Brigade R.F.A..
 - 14th ARMY Brigade R.F.A..
 - "RIGHT GROUP" -- Lieut.-Col. T.I.C. WILLIAMS, D.S.O..
 - 10th Aust. F.A. Brigade.
 - 189th ARMY Brigade R.F.A..
 - 78th Brigade R.F.A. (17th DIV.)
 - 79th Brigade R.F.A. (17th DIV.)
 - 236th Brigade R.F.A. (47th DIV.)
 - "CENTRE GROUP" -- Lieut.-Col. H.O. CADDY, D.S.O..
 - 11th Aust. F.A. Brigade.
 - 13th Aust. F.A. Brigade.
 - 14th Aust. F.A. Brigade.
 - 150th ARMY Brigade, R.F.A..
 - "LEFT GROUP" -- Lieut.-Col. H.V. de SATGE, D.S.O..
 - 298th ARMY Brigade, R.F.A..
 - 4th R.H.A. Brigade (3rd CAV. DIV.)
 - 235th Brigade, R.F.A. (47th DIV.)

/DETACHED FOR

DETACHED FOR SPECIAL PURPOSE.

16th ARMY Bde. R.H.A. -- Lieut.-Col. J.G.E. ALLARDYCE,
D.S.O..

- "A" Battery.
- "Q" Battery.
- "U" Battery.

5. Of the sixty-one Batteries in the above Brigades, forty-nine had to change positions and be newly emplaced. This was effected entirely under cover of darkness during the four nights preceding the night before the actual attack. The only movement on the last night was the 16th Brigade R.H.A. moving into advanced positions on the high ground N.E. of VAUX-sur-SOMME, and the rear Sections of those Batteries which had been carrying out usual harassing fire from original positions.
6. In addition to the usual daily expenditure in harassing and observed fire, 600 rounds per gun, and 500 rounds per Howitzer, were delivered to the Batteries, which, with the ammunition already at the guns, meant that a total of 132,000 rounds had to be supplied. This was completed by the Batteries twenty-four hours before ZERO, with the assistance of the ARMY Brigade Ammunition Columns, 4th Australian Div. Ammunition Column, and one Section of the 17th Div. Ammunition Column.
7. Compatible with the limited time available, every effort was made to reduce transport and horse lines in the forward area. Wagon Lines were well distributed and in most cases concealed under the trees in the SOMME VALLEY. All movement was kept down to an absolute minimum - both in the forward areas and at the Battery positions.
8. All Battery positions, works, etc. were camouflaged before Batteries moved in or work was commenced. It is regretted that as the R.A.F. were unable to photograph the Battery areas after occupation and before the operations, the actual results provided by the new method of camouflage adopted cannot be judged. As seen from the ground it should have proved effective, is economical and quickly erected.
9. The utmost care and secrecy was observed in issue, custody and discussion of all orders, instructions and maps etc. relating to the operations. At a Conference of all Artillery Group, Brigade and Liaison Officers, the whole Artillery plan of action and barrage procedure were dealt with in detail, and subsequently explained by them to their respective Battery Commanders.
10. Notwithstanding the movement of Batteries entailed, the usual daily and nightly programme of harassing fire was maintained right up to ZERO HOUR, and except during the last four hours, was effected by Batteries which had not changed position and by the rear Sections of others which moved up and rejoined their Batteries just before ZERO.
11. No registration was permitted, except a few ranging rounds on the "HALT LINE" and "FINAL PROTECTIVE BARRAGE", and as a check on the correct height of air bursts. This was most successfully effected by desultory rounds from ranging Batteries, covered by brisk harassing fire from those in usual positions. The limited number of ranging rounds allotted to each Battery and the usual daily expenditure was rigidly adhered to.

12. On all occasions when wind permitted, the Howitzer Batteries fired chemical shell. A small percentage of smoke shell was invariably mixed with these gas bombardments for some days before ZERO, to accustom the enemy to always expect gas with smoke. This "educative" preliminary procedure proved entirely successful as the Infantry report that many of the enemy were wearing their respirators when captured.

13. The Barrage Map supplied by Australian Corps R.A. was excellent. Clear, well drawn and unmistakable in "times", all Battery Commanders have expressed their satisfaction with it and the assistance it provided. An ample supply for all was received.

14. The distribution, in yards per gun, for all 18-prs. and 16-prs. on the "ARTILLERY START LINE" and "FINAL PROTECTIVE BARRAGE" is given in the following table :-

GROUP	"ARTILLERY START LINE"	"FINAL PROTECT. BARRAGE"
"SOUTHERN"	23.4 yards	35.6 yards.
"RIGHT"	21.4 yards	30.3 yards
"CENTRE"	26.3 yards	23.6 yards
"LEFT"	48.1 yards*	48.1 yards*

* NOTES :-

No Infantry attack was made on the LEFT Group Front but the barrage moved forward, conforming in times and lifts to that of the SOUTHERN, RIGHT and CENTRE Groups, dealing especially with any active machine gun and trench mortar positions traversed in the barrage area. After searching and sweeping all valleys and covered approaches this barrage finally returned to its original line.

15. The eight minutes' harassing fire put down immediately before ZERO to drown the noise of the Tanks approaching the INFANTRY START LINE did not exceed in any way the usual amount of fire and procedure to which the enemy had been long accustomed about this hour and did not draw any reply. It appeared sufficient to attain its object and as for the last four minutes before ZERO smoke shell were freely used, it also provided an effective screen from hostile view.

ACTION DURING ATTACK :-

16. At 3.10 a.m., well synchronised, distributed and consistent, the barrage was put down at an average distance of 200 yards in front of the Infantry Taped Line. In view of the fact that no preliminary bombardment, practice barrage, or registration of the START LINE had been possible, this was rather a delicate operation. Its complete success is endorsed by the Infantry.

/17

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17.

After remaining on the START LINE for four minutes the barrage crept outwards at the rate of 100 yards in every three minutes until the "HALT LINE" was reached, where it stood for 10 minutes, and then continued outwards at the rate of 100 yards every four minutes until finally standing on the PROTECTIVE BARRAGE LINE. Timing was good and lifts uniform.

18. The pace of the barrage proved suitable according to the reports of the attacking Infantry and Tanks. The percentage of smoke shell used in the barrage and its increase on each battery reaching the final objective and Halt Line, provided an effective screen and signal, and did not appear to interfere unduly with the vision or movement of attacking troops and Tanks. The wind was favourable, blowing gently down the barrage lines from the N.E. and providing an efficient smoke curtain across the front of attack and completely "smothering" the high ground East of VILLERS-BRETONEUX and P 27, 32 and 33.
19. The additional smoke shell provided by the 4" Stokes mortars of the Special Company R.E., greatly assisted and the vertical screen on the left flank of attack, combined with the "raking" barrage maintained by the LEFT Group guns, appeared to effectively neutralise the enemy machine guns on the spurs N.W. of SAILLY-LAURETTE.
20. Though the smoke screen used rendered it difficult to judge the distribution and connections of the barrage and to estimate the percentage of "grazes" and height of air bursts, the distribution and "pattern" of the barrage is demonstrated by the subsequent appearance of the area traversed. It appears regular and fairly consistent. There were very few "high bursts".
21. The three batteries of the 16th ARMY Brigade, R.E.A. in "positions of observation" near WELCOME WOOD were detailed to engage any targets appearing east of the barrage after ZERO hour. Though the dim light and smoke did not permit of such action in the early phases of the attack, the enfilade and searching fire of these guns on all approaches and the valley east of HAMEL and VAIRE WOOD must have been very effective. Had any enemy concentration been attempted after the attack, in the above area, the direct fire of these guns would have proved invaluable.
22. The enemy barrage and fire directed against the Batteries was very light. For this our thanks are due to the most effective neutralization of all hostile Batteries opposite the front of attack, by our Counter-Batteries and Heavy Artillery Brigades. About half an hour after ZERO the enemy placed a considerable barrage between the Front Line and Supports of the SOUTHERN Group, and the WARFUSEE ABANCOURT - VILLERS BRETONNEUX Road was most effectively searched. This fire appeared to come from the MARCELCAVE and WARFUSEE guns.
23. A fairly heavy fire was also directed by the enemy on the trench system East of HAMEL and from thence Northwards to the SOMME. This fire - and particularly that directed against the Tanks while operating in P 10 and 11 - appeared to come approximately from the direction of the head of the MALARD WOOD Valley. From the close shooting made against the Tanks while in the above area it appeared as if some 10.5 c.m. Hows. and a 7.7 c.m. battery had direct observation, and an increased rate of smoke shell was therefore ordered at this time to cover this particular area.

24. The rates of fire were as follows :-

From ZERO to reaching the Artillery Halt Line --

3 rounds per gun and 2 rounds per Howitzer per minute.

During ten minutes Standing Barrage on Artillery Halt Line --

1 round per gun and howitzer per minute for first 8 minutes, with the exception of those Batteries covering specially vulnerable portions of the HALT LINE opposite VAIRE WOOD and HAMEL, which maintained original rate of fire throughout. For the last two minutes of the Standing Barrage on the HALT LINE, fire was quickened to 3 rounds per gun, and 2 rounds per How. per minute until the Final Protective Barrage was reached, where the Batteries slowed to one round per gun and How. per minute and continued at that rate for 30 minutes, when fire ceased at ZERO plus 123 minutes.

25. Sixty per cent Shrapnel, thirty per cent H.E. and ten percent Smoke Shell were fired throughout the barrage by all 18-prs..

The 4.5" Howitzers which preceded the 13- and 18-prs. by 200 yards throughout the barrage, fired ninety per cent H.E. and ten per cent Smoke Shell.

All 18-prs. and 4.5" Howitzers fired three rounds of smoke shell in quick succession on reaching the ARTILLERY HALT LINE and FINAL PROTECTIVE BARRAGE as a signal to the Infantry that the barrage had become stationary.

After standing on the FINAL PROTECTIVE BARRAGE for five minutes, all 4.5" Howitzers searched forward at the rate of 200 yards every five minutes to a depth of 800 yards and continued searching this area until ZERO plus 123 minutes.

26. All Artillery Group, Brigade and Battery Observation Posts were manned throughout the operations. In addition special Divisional Artillery Observation Officers were detailed for each flank. These Officers were provided with telephones, C.W. sets, pigeons, and runners. On the Right flank a Power Buzzer was also installed. A central visual station was established to which all Forward Observation Officers and Flank Observers could communicate.

During the earlier phase of the operations the thick smoke prevented any definite observation being obtained but from the HALT LINE onwards the increasing light permitted our observers to closely follow the movements of the Infantry and Tanks up to the final objective.

No interruption of communications occurred and these Headquarters were kept in close touch with the operations throughout from the F.O.Os. and Divisional Artillery Flank Observers.

27. Liaison Officers were provided by the Artillery Groups to their respective Infantry Brigades. These Officers were in direct telephonic, and alternative visual communication with Artillery Group Headquarters.

28. The Signal Officer attached to these Headquarters is preparing a separate report on the system and working of communications during these operations.

6.

29. In conclusion, I desire to place on record my appreciation of the sterling work and energy displayed by all Artillery Group, Brigade, Battery and Ammunition Column Commanders under my tactical control. It is almost entirely due to their efforts and ability and the cheerful and untiring work of the Officers on my Headquarters Staff that permitted these sixteen Brigades of Horse and Field Artillery to be advanced, emplaced and in all respects ready for action in the very limited time available before these operations.

W. L. H. Burgess.

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

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

SECRET.

Headquarters,
10th July 1918.

C.R.A.,
4th Australian Division.

REPORT ON COMMUNICATION, 4th AUST. DIV. ARTILLERY

FOR OPERATIONS 4/7/1918.

Preliminary arrangements.

1. LINES

The following is description of the minimum number of lines required to carry out the operations :-

- (a) Between Div. Arty. H.Q. and Groups -
 - 1 line to Southern Group - Ground line.
 - 2 lines to Right Group - Buried and Canal Cable.
 - 2 lines to Centre Group - Buried ground and railway protected cable.
 - 1 line to Left Group - Buried Canal and Ground Cable.
 - 1 line to 11th Aust. F.A. Bde - Buried and Canal Cable.
- (b) Between Artillery Groups -
 - 1 line each Left Group to Arty. Group on Left. - Ground cable.
 - Left " to Centre Group. - do.
 - Centre Gp. to Right Group. - Railway protected cable
 - Right Gp. to Southern Group. - Canal and ground Cable.
 - 2 lines Left Group to 16th Bde R.H.A. - Ground and Canal Cable.
- (c) Between Artillery Groups and Inf. Bdes - 1 line each.
 - Southern Group. to 6th Aust. Inf. Brigade - Buried Cable.
 - Right Group to 4th Aust. I. Bde - " "
 - Centre Group to 11th Aust. Inf. Brigade - Ground line.
 - Left Group to 12th Aust. Inf. Brigade - " "
- (d) Between Groups and Sub-groups, Brigades & Batteries, O.Ps and Batteries -

Ground and Buried Cable by alternate routes. Each Group to Sub-group, Brigades to Batteries direct or through forward exchanges.
Batteries to O.Ps, all Ground lines.
- (e) Groups and F.O.Os. Before ZERO hour -
 - Southern Group to F.O.O., 1 line buried from C.H. test point at O 24 d 5 2 direct to Group.
 - Right Group to F.O.O., 1 line ground and buried cable to cable head at P 8 c 4 0.
 - Centre Group to F.O.O., 1 line ground cable to cable head at P 2 d 8 1.
 - Left Group to F.O.O., 1 line ground cable direct to F.O.O.

(f) /

(f) Between Divl. flank Observers and D.A.H.Q.

Right Flank - 1 line buried direct to Southern Group from C.H. test point at O 24 d 5 2.
1 line to Continuous Wave Wireless at P 19 o 1 9.

Left Flank - 1 line ground and Canal cable to Left Group.
1 line ground cable to Continuous Wave Wireless Stn. at J 27 b 4 4.

After ZERO hour communication to F.O.Os was carried out in accordance with S.S. 191 (Intercommunication in the Field).

Artillery personnel was detailed to assist Inf. Bde forward party to maintain lines from Cable Heads across No Man's Land to their respective forward stations.

One pair was laid for Artillery use and Artillery were given preference over any circuit between Cable Heads and Brigade Forward Stations.

On establishing himself in position F.O.O. laid line into this forward station.

Each Group had a line to the Cable Head of the Inf. Bde it was supporting.

Each Artillery Brigade upon coming into position laid down its own communication including line to Group Headquarters.

Maintenance was arranged as follows :-

F.O.O. to Brigade Forward Stn.	- special party.
Batteries to O.Ps	- Battery personnel.
Brigades to Batteries & Group	
Lateral & Inf. Liaison lines (Headquarters	- Sig. sect., at Brigades.
D.A.H.Q. to Group, Flank Observers, Lateral Div. Arty,	} D.A. Sig. Section.
A.R.P., 16th Bde R.H.A. Heavy Group, ., Kite Balloon,	
D.A.C. &c.	

and

Linemen were stationed at various points to assist the D.A.H.Q., communication 2 linemen were obtained from 47th D.A. and 4 from 5th Aust. D.A.

2. VISUAL

As an alternative to lines each Brigade established and maintained a separate system of visual mainly by means of Lucas lamps both by day and night.

Tests, before the operation, were carried out up to two hours daily when all other communications were suspended.

In addition, a Div. Arty Central Visual station was established in Pagoda in I 24 d 50 which place overlooked the objectives and was a most conspicuous place for an F.O.O. to align his lamp upon. As the place was also to be used as a Divl. Visual Station it was arranged for a special call to be used for Artillery messages. This station received DD. DD messages only.

This station was in telephone communication with Left Group.

Each F.O.O. was provided with 2 signallers and 2 Lucas lamps.

D.A. Visual station was manned by 1 N.C.O. and 6 men, 3 being obtained from 4th Pioneer Battalion to assist and provide for reading stations.

3. WIRELESS

A Wireless chain (Continuous Wave) was established as follows :-

4th Aust. D.A.H.Q.,	BUSSY	-	CALL
11th Aust. F.A.Bde H.Q.,	I 23 d 62	"	L X R
Left Flank Observer O.P.,	J 27 b 44-		L Z K
			L Z L

Continued (3).

All above station with wave length 1,300 metres.

In addition it was arranged with 3rd Aust. D.A. to place a C.W. Wireless set at O.P. in P 19 c 1 o with communication to Southern Group, at N 18 d 5 5.

The forward aerials were an average height of 7½ feet and distance between forward stations and second in chain was 4000, and 6000 yards in the case of Left and Right flanks respectively.

Good dugouts were available at ^{each} place and it was found with a little preparation to make them sufficiently sound proof even under the heaviest barrage to read signals.

IGEONS

4. 14 birds were obtained for the Divisional Artillery for "Z" day and were distributed as follows :-

F.O.O. Southern Group	-	4.
" Right "	-	4.
" Centre "	-	4.
Right Flank Observer	-	2.

Birds were delivered by 7 p.m. on "Y" day. The lofts were situated at FLEXECOURT and BERTANGLES.

MOTOR D.Rs.

5. Besides two motor D.Rs with 4th Aust. D.A. Sig. Section, one extra was obtained from each 5th Aust. D.A. and 47th D.A. The 17th D.A. being in action could not supply either linemen or D.Rs.

Three regular runs per day were arranged at convenient times to all Group Headquarters. Special despatches were delivered direct to the addressee. Sub Groups collected traffic from Group H.Qrs.

The weather being dry, the roads were in good condition for D.Rs, and times were very satisfactory.

SIGNAL OFFICE.

6. No special arrangements were made in this respect. One exchange operator, one message clerk, one check cyclist and one Signal Master i/c, comprised a shift.

GENERAL REMARKS ON COMMUNICATIONS DURING OPERATIONS

Mainly owing to the small amount of enemy shell fire, lines were comparatively easy to maintain.

The communication in this respect to F.O.Os and Flank Observers was excellent and information was transmitted to the rear with rapidity. In some cases Group Commanders were able to speak direct to F.O.Os, and D.A.H.Q. direct to Flank Observers.

Throughout the Divisional Artillery the number of buried or canal lines were very small. 60 miles of D 3 and D 2 twisted cable was expended amongst the 16 Artillery Brigades, and the establishment of Batteries was not interfered with.

Throughout the whole Divisional Artillery Area telephone communication was all that could be desired. It was owing to this reason that the various aids to communication were little used.

No messages were actually received by the D.A. Central Visual Station but communication to F.O.Os was possible and was tested, and visual would have been made use of had occasion arisen.

As regards wireless, the proximity of the forward stations to the front line is interesting to note. Notwithstanding this, and the consequent difficulty of maintaining aeriels 25 messages were received from the Flank Observer & 2 from the Right Flank observer by Continuous Wave Wireless, in good time.

Continued (4).

To enable messages to be dealt with rapidly it was decided to send everything in clear except map references, for which a special code was used.

To avoid possibility of the enemy detecting from the fact of increased C.W. traffic before the operation that it was our intention to attack, the forward stations were tested out with calls that had already been in use and then remain silent until ZERO hour.

The aerial at J 27 b 54 was erected in a wood which although had a certain screening effect, prevented the aerial from being observed.

Although the greater amount of information, orders &c, were spoken over the wires 80 messages were received in the space of 1 hour.

Time did not permit of an extensive Wagon Line system being established and those Brigades not connected by 'phone to their Wagon lines provided orderlies to take traffic from D.A. Sig. Office.

Only two pigeon messages were received and the remainder of the birds were brought back and released.

Throughout the operation communication was very satisfactory in all sections and brisk service was maintained.

R. E. Blake

Lieut.
Signal Officer,
4th Australian Divisional Artillery.

FIELD ARTY. BARRAGE MAP.

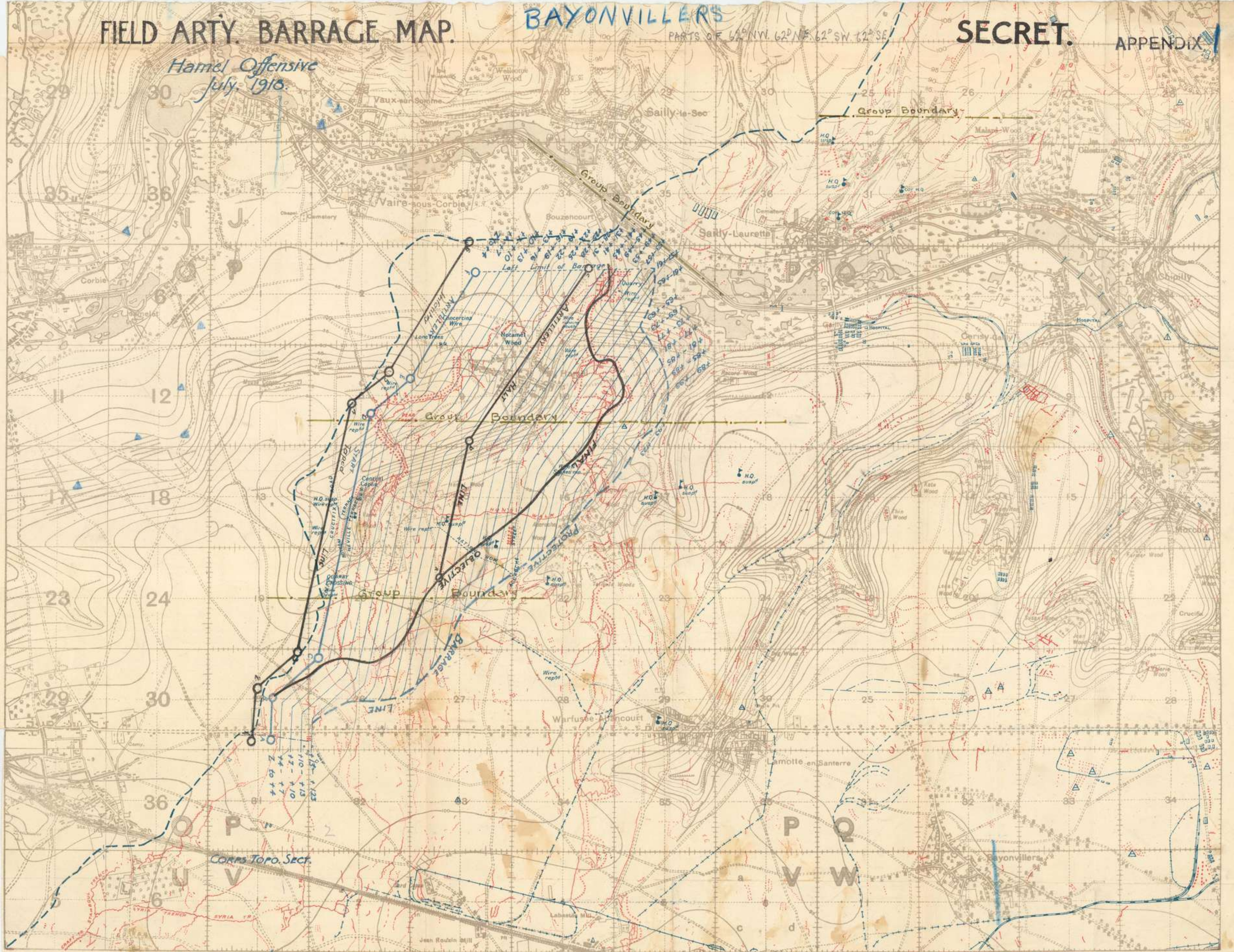
BAYONVILLERS

PARTS OF 62° NW, 62° NE, 62° SW, 62° SE

SECRET.

APPENDIX

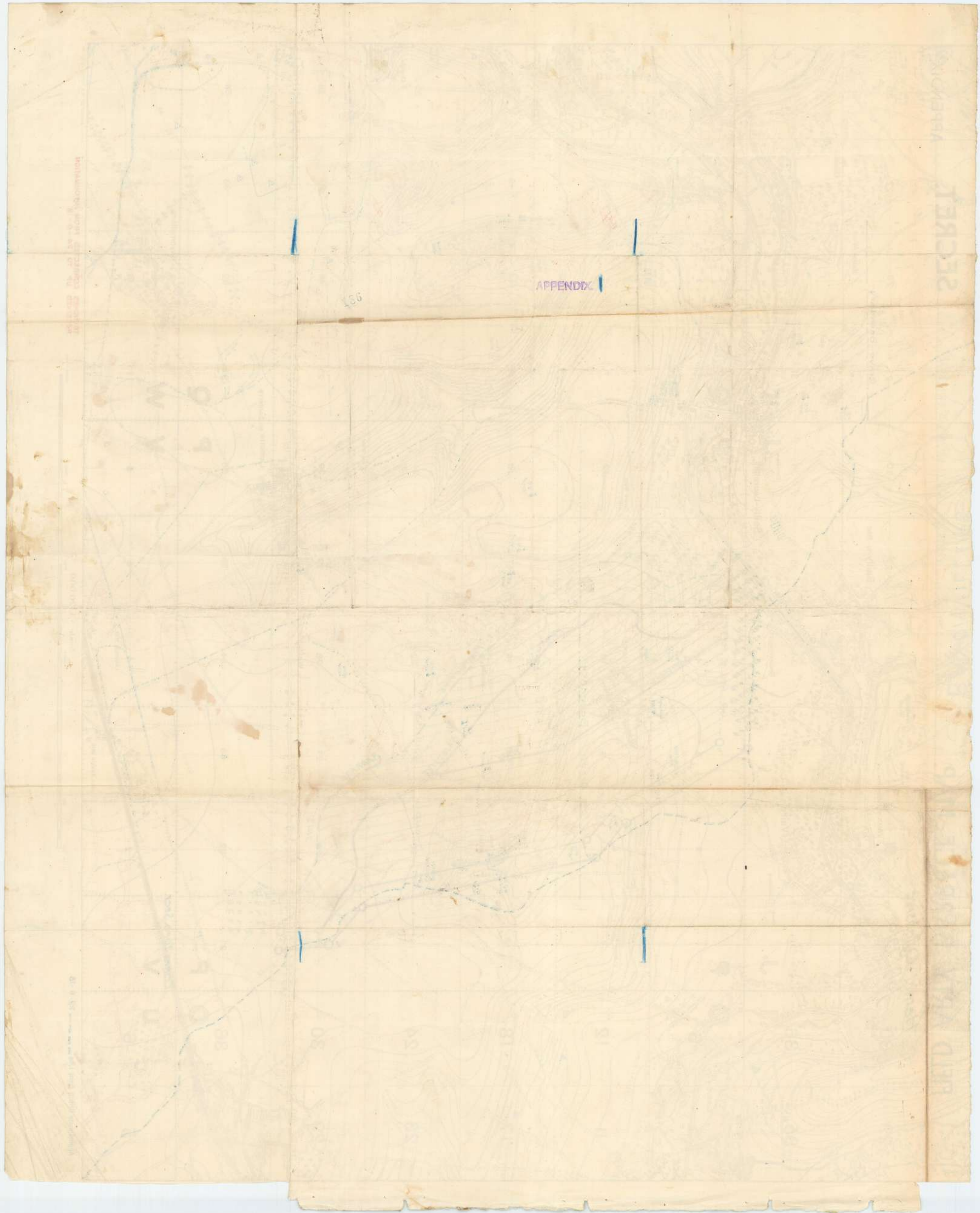
*Hamel Offensive
July, 1918.*



Approximate British Front Line ——— 22-6-18

Scale - 1:20,000

TRENCHES CORRECTED FROM INFORMATION RECEIVED UP TO 24-6-18.



SECRET

SECRET

SECRET

SECRET

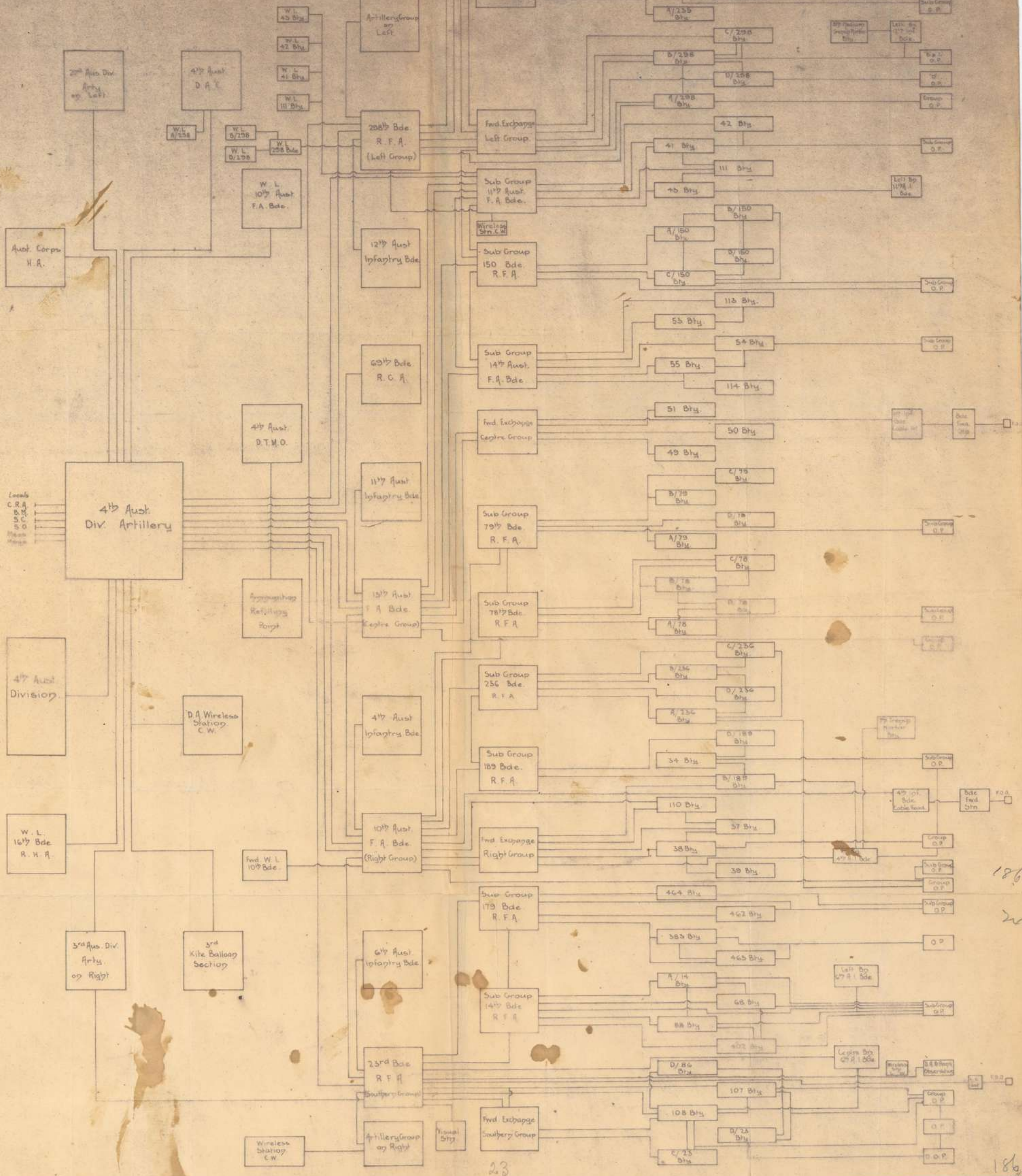
SECRET

COMMUNICATIONS

4TH AUST. DIV. ARTILLERY

Circuit Diagram
4-7-18

APPENDIX 1



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WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Place _____ Date _____ Hour _____ VOL. XXX. Summary of Events and Information Page APP. II/ 1. Remarks and references to Appendices

APPENDIX II :- BATTLE CASUALTIES DURING THE MONTH OF JULY 1918.

UNIT.	OFFICERS				OTHER RANKS					UNIT TOTAL	
	Killed	Wound.	Gassed	Missg.	TOTAL	Killed	Wound.	Gassed	Missg.		TOTAL
<u>10th Aust. F.A. Bde.</u>											
Headquarters	-	-	-	-	-	-	-	-	-	2	5
37th Battery	-	3	-	-	3	-	2	-	-	9	10
38th Battery	1	-	-	-	1	-	9	-	-	-	-
39th Battery	-	-	-	-	-	-	-	-	-	-	-
110th How. Bty.	-	-	-	-	-	1	-	-	-	1	1
Brigade TOTAL	1	3	-	-	4	1	11	-	-	12	16
<u>11th Aust. F.A. Bde.</u>											
Headquarters	-	-	-	-	-	-	-	-	-	5	7
41st Battery	-	2	-	-	2	1	4	-	-	-	-
42nd Battery	-	-	-	-	-	-	1	-	-	1	1
43rd Battery	-	-	-	-	-	-	3	-	-	3	4
111th How. Bty..	-	1	-	-	1	-	3	-	-	9	12
Brigade TOTAL	-	3	-	-	3	1	8	-	-	9	12
<u>4th Aust. M.T.Ms..</u>											
7th Battery	-	1	-	-	1	1	6	3	-	10	11
8th Battery	-	-	-	-	-	-	2	5	-	7	7
T.M. TOTAL	-	1	-	-	1	1	8	8	-	17	18
<u>4th Aust. D.A.C.</u>											
TOTAL	-	-	-	-	-	-	2	-	-	2	2
<u>GRAND TOTALS</u>	1	7	-	-	8	3	29	8	-	40	48

Names of Officers affected appear in text pages.

D. D. & L., London, E.C.
(A10266) Wt W5300/P713 750,000 2/18 Sch. 52 Forms/C2118/16

1/8/1918.
Staff Captain,
4th Aust. Divisional Artillery.
APPENDIX.

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WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

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APPENDIX III.

T A B L E

SHOWING ESTABLISHMENT, EFFECTIVE STRENGTH, CASUALTIES, REINFORCEMENTS RECEIVED AND FINAL EFFECTIVE STRENGTH AT END OF CURRENT MONTH.

U N I T S.	(a)			(b)*			(c)			(d)			(e)*		
	Establishment			Strength at end of last month			Casualties			Rein. recvd.			Remaining effective Strength		
	OFF.	O.R.	TOTAL	OFF.	O.R.	TOTAL	OFF.	O.R.	TOT.	OFF.	O.R.	TOT.	OFF.	O.R.	TOTAL
4th Aust. D.A.H.Q.	6	20	26	6	23	29	-	-	-	-	-	-	6	23	29
10th Aust. F.A.Bde.	28	785	813	30	859	889	6	41	47	8	41	49	32	859	891
11th Aust. F.A.Bde.	28	785	813	33	846	879	3	52	55	6	23	29	36	817	853
4th M.T.M. Btys.	8	106	114	12	117	129	3	26	29	6	22	28	15	113	128
4th Aust. D.A.C.	18	570	588	19	658	677	3	21	24	-	23	23	16	660	676
TOTALS	88	2266	2354	100	2503	2603	15	140	155	20	109	129	105	2472	2577

NOTES :-

- (a) This establishment does not include attached.
- (b) Remaining effective strength and end of preceding month.
- (c) Includes all casualties, i.e. Battle Casualties (vide APPENDIX II). Sick evacuations, wastage, etc..
- (d) Shows all reinforcements received during current month.
- (e) Shows actual effective strength at end of current month, i.e., (b) minus (c) plus (d) = (e).

* Columns (b) and (e) include all Officers and other ranks on Command, leave, at Schools, etc. (except personnel at R.B.A.A..)

1/8/1918.

Arthur Stewart
Captain,
Staff Captain, 4th Aust. Div. Arty..

D. D. & L., London, E.C.
(A10266) Wt W5300/P713 750,000 2/18 Sch. 32 Forms/C2118/16

APPENDIX 3

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WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Place	Date	Hour	<u>VOL. XXX.</u>	Summary of Events and Information	Page <u>APP. IV/1</u>	Remarks and references to Appendices
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APPENDIX IV :-

SUMMARY OF AMMUNITION EXPENDED DURING MONTH OF JULY 1918.

UNIT	AMMUNITION EXPENDED						TOTAL
	18-pr.			4.5" How.			
	Shrap.	H.E.	Smoke	H.E.	Gas	Smoke	
10th Aust. F.A. Brigade.	24177	14745	1445	11738	2318	246	54, 669
11th Aust. F.A. Brigade	19155	12292	896	8184	1406	156	42, 089
4th Aust. M.T.M. Batteries						809	809
<u>Fired during JULY</u>	<u>43332</u>	<u>27037</u>	<u>2341</u>	<u>19922</u>	<u>3724</u>	<u>402</u>	<u>97, 567</u>
<u>Fired since Jan.1st</u>	<u>136510</u>	<u>99495</u>	<u>2341</u>	<u>59526</u>	<u>12152</u>	<u>402</u>	<u>313, 074.</u>

NOTE :- Expenditure of Smoke Shell is from 1/7/1918 only.

Shurlock

Captain,
Staff - Captain,

4th Australian Divisional Artillery.

4th Aust. D.A.H.Q.,
1st August 1918.

APPENDIX

4

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WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Place	Date	Hour	Summary of Events and Information	Page APP. V/ 1	Remarks and references to Appendices
			VOL. <u>XXX.</u>		
			<u>APPENDIX V.</u>		
			<u>HONOURS AND REWARDS.</u>		
			During the month of July the following HONOURS and REWARDS were received :-		
			<u>OFFICERS</u> -- Nil.		
			<u>OTHER RANKS</u> -- <u>MILITARY MEDALS</u> 4		
			The following are descriptions, in brief, of the acts for which the above awards were made :-		
				<u>MILITARY MEDALS</u>	

APPENDIX.

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Place	Date	Hour	Summary of Events and Information	Page	Remarks and references to Appendices
			<p><u>VOL. XXX.</u></p> <p><u>APPENDIX V (Continued)</u></p> <p><u>HONOURS AND REWARDS.</u></p> <p><u>MILITARY MEDALS</u></p> <p>Awarded vide 4th Aust. Div. ROUTINE ORDER No. 2146 of 13th July 1918 :-</p> <p><u>No. 29774 Driver Harold Henry RICHARDS</u>) 4th Aust. Div. Ammn. Column. <u>No. 2656 Driver Cyril GILTROW</u>)</p> <p>" For conspicuous gallantry and devotion to duty. On the night 4th/5th July 1918, when driving their team of mules attached to a G.S. wagon loaded with trench mortar bombs, in the rear of HAMEL, the enemy placed a heavy barrage on all roads in the vicinity. A wagon immediately in front of this team was blown off the road, drivers and horses being casualties. With great coolness and presence of mind these two Drivers drove their team a little off the road and remained standing by the mules for 1½ hours under heavy shell fire, awaiting instructions from a guide who had gone forward to receive instructions from an Officer.</p> <p>-----</p> <p>Awarded vide 4th Aust. Div. Letter No. A H/6 of 26th July 1918 :-</p> <p><u>No. 33313 Gunner Thomas Leslie NORTON</u>) 42nd Battery, 11th Aust. F.A. Bde.. <u>No. 1594 Corporal Allan HANCOCK</u>)</p> <p>" For conspicuous gallantry and devotion to duty. On the 15th July 1918, the 42nd Battery position West of HAMEL was heavily shelled. Two guns were put out of action by the bombardment; the camouflage of several others and an ammunition dump became ignited. Notwithstanding the continued heavy shell-fire Corporal HANCOCK and Gunner NORTON worked at the fire until extinguished and collected all sights from the guns.</p>	APP. V/2.	

4th Australian Divisional Artillery.
 Staff Captain,
 Captain,
 APPENDIX V

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT
for period

12 noon 1st to 12 noon 2nd July 1918.

OUR ARTILLERY.

Registration was carried out during the day, and zero lines were checked. Very little movement was seen.

During the night we fired on H.Q. at P 15 Central, suspected wireless plant at K 31 c 5 3, Posts at J 36 a 3 2, VAIRE Wood, dugouts and centres of activity in P 21 b, P 21 d, P 22 a, P 20 b, and trenches in P 10 b, P 4 d and K 31 b.. Two dumps were engaged at P 16 d 6550 and K 31 c 6550.

T.Ms. fired on Minenwerfer at P 4 b 7080, 12 rounds; and 27 rounds on P 14 b and P 5 b.

HOSTILE SHELLING.

Areas shelled were :-

Time	Nature	Rds.	Area shelled	G.B. Obs. from
10.15 a.m.	77 mm	25	J 27 a	129° J 27 b 9 2
12.30 p.m.	77 mm	50	J 28 a 1 7	
11.30 p.m.	77 mm	30	P 13 a	
4.5 p.m.	77 mm	20	J 28 a 1 7	
5.30 p.m.	5.9	50	O 10 Gent.	
6 p.m.	"	20	O 10 a.	
10.30 p.m.	4.2	30	O 6 d 8005	
10.45 p.m.	4.2	25	O 16 a & b	
" "	"	230	O 17 a	108° O 17 d 5595
11 p.m.	5.9	20	I 29 c	
11.10 p.m.	4.2	18	FOUILLOY	
2 p.m.	"	50	J 26 c 3 9	
9 a.m.	5.9	25	J 25 a & b	
11 a.m.	"	20	J 25 a & b	
11.30 a.m.	4.2 H.	20	O 17 and 18.	

G.S.B. of 103° from P 13 a 4570 to a 4.2 Battery (4 guns).

ENEMY'S ATTITUDE.

Slightly more active than the previous period. 5.9 Batteries were much more active on the Left Group Sector.

AERIAL ACTIVITY.

Several E.A. crossed our lines during the day but were engaged by our A.A. fire. At 7 p.m. 2 E.A. drove one of our 'planes down in flames at approx. P 15 d 3 8.

MOVEMENT.

A sniper was active at P 14 d 4 6 firing on P 13 d and P 19 a during the evening. Individual movement was seen during the afternoon in P 10 and 11.

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

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT

For period
12 noon 2nd - 12 noon 3rd July 1918.

OUR ARTILLERY.

Working party at P 10 b 8 3, and movement at P 3 c 8020 engaged during the evening.
Registration was carried out during the day, but very little movement was seen in the forward areas.
Enemy party dispersed at P 28 b 5540 by our fire.
During the night trenches were fired on in P 14 d, P 20 a 7 6, J 36 a, P 21 b, P 4 d, P 16 b, and P 5 d.
HAMEL and VAIRE WOODS and M.Gs. at P 5 b 9 9, J 35 d 5540, J 35 d 9 0, P 8 d 8 7 and P 20 b, and all roads and communication trenches leading to the forward areas received attention.

T.Ms. fired 30 rounds on M.Gs. at P 14 b 3080 and P 9 a 9020 and 45 rounds on centres of activity in J 36 a & b.

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Cal.	Rounds	Area shelled	G.B.	Obs. from
11 a.m.	77	20	VAIRE	130	I 30 a 8 8
"	4.2	30	P 13 b & d	88	P 19 a 4075
11.15 a.m.	77	30	O 10 b 8 0		
noon	4.2	20	O 14 a		
4 p.m.	"	10	BONNAY		
6 p.m.	5.9	20	HEILLY		
6.10 p.m.	4.2	20	O 17 d		
6.40 p.m.	77	30	O 11 a	112	O 17:b 1025
9.30 p.m.	5.9	20	O 18		
9.45 p.m.	4.2	20	O 16 b		
10 p.m.	77	30	P 19 a		
10.15 p.m.	5.9	10	J 26		
10.45 p.m.	4.2	30	O 17 b & O 18 a		
11.15 p.m.	4.2	20	I 20 & 2 6		
1 - 4 a.m.	4.2 HE & gas	40	J 26 c & d.		

ENEMY ATTITUDE

Quiet, except for scattered harassing fire during the night.

AERIAL ACTIVITY.

Enemy 'planes were not very active owing to poor visibility. A few E.A. attempted to cross our lines but were driven off by A.A. fire. Our 'planes were active as usual.

MISCELLANEOUS

New stakes are visible in the wire at P 14 d 2 3, and the wire has been added to.

FROM 4th AUST. Div. SUMMARY & OTHER SOURCES.

Active T.Ms. located at P 4 b 7005, P 5 b 2550, P 9 b 1035, P 9 b 8040.

CR Rowan Lieut.,
for Staff-Lieut.,
4th Australian Divisional Artillery.

[Handwritten signature]

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.SECRET.DAILY INTELLIGENCE REPORT
For period

12 noon, 3rd to 12 noon 4th July 1918

OUR ARTILLERY.

At 3.10 a.m. an attack was made on "B" Div. Sector; our Batteries fired in support of this.

During the night the usual harassing fire was put down; VAIRE WOOD, tracks and trenches in vicinity, and roads and approaches to HAMEL received special attention; centres of activity at P 26 b and J 36 a and VAIRE TRENCH P 14 d - P 8 d, were also engaged with concentrated fire.

T.M.s. fired 20 rounds on suspected Minenwerfers in P 9 b and 20 rounds in trench at P 14 d; during the night 70 rounds on areas in J 36 a and b and 80 rounds J 36 c & d.

HOSTILE ARTILLERY.-----
Areas shelled were :-

Time	Calibre	Rds.	Area shelled	Bearg.	Obser. from
10 a.m.	4.2	20	O 17 d	108	O 17 d. 5392
1 p.m.	"	20	O 16 a and b.		
2.45 p.m.	"	40	J 27 a		
9.45 p.m.	"	20	O 16 b and c.		
10.45 p.m.	"	20	O 16 a and b.		
11.30 p.m.	5.9	20	O 17 a.		
3.15 a.m.	4.2	50	O 12 d.		
3. 11 a.m. light barrage on whole Divisional Front and scattered shelling of our front trench systems.					

ENEMY'S ATTITUDE.

Very quiet during the night; enemy barrage very light during our attack.

No hostile barrage fell until fifteen minutes after ZERO HOUR. Enemy appeared to be completely surprised by our attack.

AERIAL ACTIVITY.

Our 'planes very active during the night, flying at low altitude. Many bombs dropped on rear areas; during the early morning our 'planes flew low over our new front line; excellent liaison established between our Infantry and airmen. 10 a.m.. Seventeen enemy 'planes patrolling line; two of our 'planes crashed near HAMEL.

SITUATION.

All our objectives were gained in the attack. Prisoners at present number

31 Officers
1061 Other ranks

We have also taken 90 M.Gs. and 14 T.Ms.. This count is not final.

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

CONFIDENTIAL.

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DAILY INTELLIGENCE REPORT

for period
12 noon 4th to 12 noon 5th July 1918.

OUR ARTILLERY.

All movement was engaged during the afternoon, and S.O.S. lines were fired on and reported satisfactory. At 10 p.m. a special gas shoot was effected by all the 4.5" How. Batteries in the "B" Divisional Sector in conjunction with the Heavy Artillery; the valley in P 14 c and P 24 b received a heavy concentration of gas. At 10 p.m. all 18-pr. Batteries put down heavy harassing fire on enemy forward areas, and at 10.21 p.m. in response to S.O.S. from Infantry, all the Groups fired for twenty minutes; the counter-attack was repulsed, and fire ceased at about 11 p.m.. During the night the usual harassing fire was put down on enemy front system and approaches. P 28 a, P 22 c, P 17 b and c, Q 1 c, K 31 d and a and Road in Q 7 a received special attention. T.Ms. fired 100 rounds on special targets for the Infantry and on S.O.S. at 10.21 p.m..

ENEMY ARTILLERY.

Areas shelled were :-

Time	Calibre	Rounds	Area shelled G.Bs. Obs. From		
10 a.m. - 4 p.m..	4.2	100	P 14 central		
11 - 3 p.m.	21 cm H.V..	20	FOUILLOY		
4 p.m.	5.9	50	HAMELET		
3 p.m.	4.2	100	P 13		
4 - 5 p.m.	5.9	200	P 15 & 21		
5.35 p.m.	4.2	40	HAMELET		
7.15 p.m.	77s. & 4.2H.	150	C 10 a and b.	1310	J 19 c 8030
8.45 p.m.	21 cm H.V..	40	CORBIE		
11.15 p.m.	4.2 H.	150	C 10 a and b.		
11.25 p.m.	4.2	20	FOUILLOY		
1.30 - 4.50 a.m.	5.9	30	C 13 a 0 5.		

Enemy Artillery was very active during the day, and during the night a barrage was put down on our front line in support of the attack; great activity shown by a 21 c.m. H.V. gun on FOUILLOY and CORBIE.

AERIAL ACTIVITY.

Very high on both sides; several enemy 'planes flew low over the Batteries during the afternoon and evening. During the night our back areas were heavily bombed by E.A..

MOVEMENT.

Much movement was seen during the afternoon in enemy back areas. This was successfully engaged by the Corps H.A..

SUMMARY
FROM CORPS INTELLIGENCE/AND OTHER SOURCES.

Operations

To date prisoners number
 Officers - - - 38
 O.R. - - - 1269
 M.Gs. - - - 103
 T.Ms. - - - 14
 & 1 77 mm. gun.

and large supplies of material. The following Divisions were engaged. 108th Div., 13th Div. in VAIRE WOOD Sector and 43rd Div. in HAMEL Sector.

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

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT.
For period

noon 5th to noon 6th July 1918.

OUR ARTILLERY.

Suspected Battery at P 12 a engaged and traffic on roads in Q 7 a and Q 13 a. At 10.15 p.m. CENTRE Group fired on S.O.S. for 15 minutes, afterwards found that S.O.S. was fired by the enemy.

Registration was carried out by RIGHT Group on P 17 b 8 3 P 27 b 0 5 and P 28 b 6030 and harassing fire put down on P 16 b, P 17 c, P 12 a and c and road in P 23 c. Also a concentrated harassing shoot was put down on enemy's communications and centres of activity at 10.15 p.m. and 3.5 a.m. lasting for 15 minutes.

Medium T.Ms. engaged targets in J 35 a, d and c. 38 rounds and 20 rounds on M.Gs. at J 35 d 3510 and P 5 b 2090.

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Calibre	Rounds	Area shelled	G.Bs.	Obs. from.
11 a.m.	4.2 H.	50	P 12 a	H.E.	
12.15 p.m.	5.9 H.	30	O 12 a and O 6)	&	
1 p.m.	"	50	O 10 a	Gas	
12.30 p.m.	5.9 H.	30	P 19 a & b	112°30'	P 19 a 6 8
1.5 p.m.	"	25	P 20 b 6 2	108°	P 19 a 4575
3.30 p.m.	4.2	50	P 20 b & d.	112°30'	P 19 a 6 8
4.50 p.m.	"	25	P 19 c	126°	P 19 a 4575
5.30 p.m.	77	70	O 24 b		
5.45 p.m.	4.2	12	P 20 b	110°	P 19 a 4575
7 p.m.	"	50	HAMEL		
6.15 p.m.	"	30	P 14 c, P 20 a	112°30'	P 19 a 6 8
9.30 p.m.	"	150	P 3 c and d.		
10.15 "	5.9	12	O 7 d	108°	O 17 d 5593
10.20 p.m.	4.2 H.V.	30	P 12 a		
11 p.m.	4.2	(20	O 18 a 4 6.		
		(BLUE X gas)			
2.5 a.m.	"	(20	gas O 17 d		
Flashes observed at G.Bs. 116° from J 27 b 5 2,					
July 4th 129° " J 28 b 4 2					
139° " J 22 c 2 6					
A.A. Battery observed in vicinity of P 24.					

ENEMY ATTITUDE

Active, HAMEL and trench system to east were heavily harassed by 5.9s., 8.2s. and 77s.. Barrages put down on trenches near SAILLY-le-SEC and in front of HAMEL lasting for ten minutes.

AERIAL ACTIVITY.

Above normal. 4.15 p.m. 13 E.A. over J 17. 6.45 p.m. 5 E.A. over J 19, 7.45 p.m. 14 E.A. over J 19 engaged by A.A. fire. Enemy balloons observed at 168°, 159° and 110° G.B. from J 27 c 0050. Large flights R.E.A. seen over RIGHT Group front; these were engaged by our 'planes and driven off.

ENEMY MOVEMENT.

3 p.m.. Trucks observed at R 8 b with three wagons unloading from them. 3.4 p.m., Lorries seen on road Q 12 c and Q 12 d.

MISCELLANEOUS.

H.qrs. are situated at approx. P 21 d 8310; P 29 d 9 4, P 23 d 3005 and P 24 a 0050, taken from captured Artillery map (last two are probably Battery Headquarters). Two well camouflaged gun pits exist at P 24 a 3082, centres of movement are P 16 d 4060, P 16 d 1 2, P 21 d 9 9, P 22 a 7355, P 22 b 9055 and P 22 b 3525.

Overleaf

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APPENDIX 6

2.

FROM 4th AUST. DIV. SUMMARY AND OTHER SOURCES. :-

At daybreak 5th July the Brigade South of the SOMME regained a S. Post in which the enemy had obtained a footing in the counter attack at 10.20 p.m., 40 prisoners captured; 10 M.Gs. and 1 anti-tank rifle; many enemy killed.

Total number of prisoners through Corps Cage is 40 Officers and 1417 other ranks.

A captured prisoner stated that a listening set was installed in a cellar west of HAMEL; this was to be destroyed in case of an attack; very little information of value was obtained.

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

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT
for period

12 noon 6th to 12 noon 7th July 1918.

OUR
ARTILLERY.

Harassing fire was carried out during the day and night on roads and approaches and centres of activity in the following areas :-

P 17 a, P 16 d, P 23 c, P 22 a and b, P 23 a, P 17 c, Q 7 c, Q 7 a and P 12.

A suspected Battery position at Q 14 a 9540 was engaged with bursts of fire.

Registration and calibration were successfully effected on P 29 b 0550 and P 17 d 4035.

Valleys in P 24 a and b, and P 12 were gassed by 4.5" Hows. during the night.

Movement was engaged and dispersed in P 12, P 17 c and at Q 7 c 2 8 and P 29 a 9 2, casualties being inflicted on a party at the latter point.

Counter preparation on selected areas was carried out by all Groups between 3.15 a.m. and 3.50 a.m..

HOSTILE
ARTILLERY.

Areas shelled were :-

Time	Calibre	Rounds	Area shelled	G.B. (Sound)	Obser. from
Intermittently (afternoon). 3.10 p.m.	77 mm.) 4.2 H.) Blue X & H.E.)	250	J 26 c & d	90°	LA NEUVILLE
4.5 p.m. 3.30, 4.0 & 6 p.m..	77mm, 4.2 H.) & 5.9 How.) 5.9 How.)	175	P 20 c and d		
4.30 p.m.	4.2 How.	100	P 10		
6 - 8 p.m. 6.30 p.m.	77 mm.) 4.2 How.)	26 40	I 36 O 18 Central	98° 90°	J 27 a 7 0 O 12 c 1 9
6.45 p.m.	5.9 How.	100	P 10 c and d	105°	P 10 Cent.
7 - 7.30 p.m.	4.2 H.	20	HAMELET.		
7.10 p.m.	5.9 H.	100	Road N.E. of VAUX	105	J 26 c 3 9
7.20 p.m.	5.9 H.V.	12	FOUILLOY	90°	O 12 c 2894
8 p.m..	4.2 H.) Yellow X)	40	J 16 a	75°	P 19 a Cent.
9 p.m.	77 mm.)	40	(Roads in P 2 c (and d.		
9.30 p.m.	77mm.)	100	VAUX	90°	J 27 b 6 7
9.50 p.m.	4.2 How.	30	J 26 c & d		
10.10 -	(5.9 How.)				
10.20 p.m.	(4.2 How.)	80	P 10 b & d	CERISY	
10.15 p.m.	4.2 How.	50	VAUX	105°	J 26 c 3 9
12.3 a.m.	4.2 gas	200	J 8 and 9		
3.30 a.m.	4.2 How.	12	O 18 a 4 2		
11.25 a.m.	5.9 How.	6	BUSSY	GUILLACOURT	
11.35 a.m.	77 mm.) 4.2 How.)	50 40	P 20 c & d do.	101° 106°	P 13 b 2 2 do.

ENEMY'S
ATTITUDE.

Greater activity displayed. HAMEL and trench system in P 10 b were persistently shelled with 5.9 How. and 4.2 How. at intervals throughout the day.

37 APPENDIX 6
AERIAL
ACTIVITY.

Below normal, probably owing to indifferent visibility.
 9 a.m. 2 E.A. crossed our lines over HAMEL.
 10 a.m. 2 E.A. over J 35
 11.45 a.m. 3 E.A. patrolled F.L..
 5 - 7.30 p.m. 1 E.A. patrolled F.L..

The above were engaged and driven off by A.A. fire.
 Some balloons were observed during the morning but none were
 in use on the front in the afternoon.

MOVEMENT.

Movement was observed at P 17 c 3520 and P 12 Central.
 There is apparently some work in progress at the latter
 point.
 Working parties were observed at Q 7 c 2 8 and P 17 c
 3520. Casualties were inflicted on a party at
 P 29 a 9 2.

FROM 4th AUST. DIV. SUMMARY AND OTHER SOURCES.

At 10.15 p.m., 5th July the enemy fired 2 reds and
 two greens - apparently his S.O.S. Signal at the time.
 His Artillery responded quickly.
 At 4.5 p.m. on 6th July a number of white lights were put
 up from P 17 c; no action followed.

Enemy aeroplanes dropped packages near enemy front line.
 His Infantry immediately fired a flare.

At 11.30 a.m., 5th July, on the Right Divisional Front,
 after rifle grenade preparation,
 One man recommitted enemy post at P 26 b 8 2 and returned
 with 13 prisoners (1 Officer and 12 O.R..)

W Parkinson Major

for Lieut.
 Staff-Lieut.,

4th Australian Divisional Artillery

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT
for period

noon 7th to noon 8th July 1918.

OUR

ARTILLERY. At 12.15 a.m. we fired in support of the Left Infantry Brigade and our line was advanced to a line joining P 11 a 3 0 and J 30 d 5 0; 1 Officer and 21 O.R. were captured, our casualties being very light.

Movement in P 29 b 0 5, traffic on roads at P 20 a 0 5 and P 29 b 9 1 were engaged with effect.

Large working party in Q 7 c 6 3 dispersed at 11 a.m..

Suspected H.Q. at Q 22 a 9 9 was engaged. Enemy Battery at Q 2 d 3 7 firing on our F.L.T. was engaged and silenced at 1 p.m..

At 6.40 p.m. an A.A. Battery at P 15 d Central was forced to move as result of our fire.

4.5" Hows. fired at enemy wire in J 35 d 8585 and J 35 d 7570. Registration was carried out on P 20 b 0 5 and harassing fire distributed over known enemy communications and centres of activity.

Medium Trench Mortars co-operated at 12.15 a.m. firing on SUNKEN ROAD (J 36 c 5 5 to J 36 b L055).

HOSTILE
ARTILLERY.

Areas shelled were :-

Time	Calibre	Rds.	Area shelled	G.B.	Obser. from.
8 a.m.	4.2	12	O 18 Central		
9.45 a.m.	"	6	WELCOME WOOD	144°	J 27 b 7 2
10.45 a.m.	4.2 & 5.9	100	Vicinity of F.L.T. in HAMEL Sector.		
10.10 a.m.	5.9	36	P 16 a and P 10 d.		
11.20 a.m.	4.2	15	J 28 a	131°	J 27 b 7 2
11.30 a.m.	4.2	30	HAMEL		
11.55 a.m.	77	40	F.L.T. P 4 d.	121°	J 27 b 7060
11.45 a.m. to					
2.25 p.m.	5.9	150	P 10 b & HAMEL	90	"
1.25 p.m.	4.2	100	P 10 b and d.		
1.50 p.m.	"	15	P 4 b	112	J 27 b 7 2
2 p.m.	5.9 & 4.2	25	K 25 b & c		
2 - 2.45 p.m.	4.2 & 77	140	P 4 d and P 10 d	130°	J 27 b 7060
4.15 p.m.	5.9	50	J 35 b and c	92°30'	"
10.45 p.m.	4.2	20	O 17 a & d	109°	O 17 d 5595
11 p.m.	77 & 4.2	50	O 12 c & 2		
At intervals all day	(77 & 4.2)	300	P 20 c and d	(101°	P 27 b 3 7
				(106°30'	"

ENEMYATTITUDE.

Fairly active.

HAMEL and Trench systems in P 10 and 11 were heavily shelled by 5.9s. from direction of CERISY.

AIRIALACTIVITY.

Our 'planes were active all day. E.A. quiet.

At 6.45 p.m. enemy 'planes crossed our lines at high altitude over SAILLY-le-SEC.

At 11.30 a.m. 1 E.A. was brought down in P 11.

At 8 p.m., 'plane nationality unknown, was shot down and landed in P 13 b.

ENEMYMOVEMENT.

Great enemy activity was observed at 2 p.m. in P 28 a and b; about 100 men were seen digging trenches. "A" Div. Artillery put down a concentrated shoot. Parties of men seen on crest in P 18. Movement at Q 22 a 9 9. C.S. wagon and mounted troops observed there.

At 11.45 a.m. 1 motor car and 2 lorries moved easterly along WARTUSSE - ARANCOURT Road.

over

APPENDIX 6

2.

MISCELLANEOUS. Visibility only fair.

Arthur Purvis Capt

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

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

APPENDIX 6 40

DAILY INTELLIGENCE REPORT

CONFIDENTIAL.

for period

12 noon 8th to 12 noon 9th July 18

OUR ARTILLERY.

During the day some registration was carried out and continual movement in P 28 a was engaged. A hostile T.M. was engaged at K 31 c 5075. At 10.15 p.m. heavy harassing fire was put down for 20 minutes on enemy points of assembly and roads and approaches to his forward areas. The LEFT Group coached and swept K 31 b, and searched back 300 yards from S.O.S. line for 4 minutes.

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Nature	Rds.	Area shelled	G.B.	Obs. from
1.35 p.m.	5.9	50	HAMEL		
2 - 2.30 p.m.	77	20	P 20 a	123°	P 19 a 4575
2.30 p.m.	5.9		Registration		
4 p.m.	"	20	VAIRE WOOD		
4.50 p.m.	77	20	P 19 a 2 6	123°	30.
4.15 p.m.	5.9	50	HAMEL		
5 - 7 p.m.	8" H.T.M.	12	P 20 b		
10.45 p.m.	4.2	20	J 27 a		
12.15 a.m.	"	10	O 18 a 2 8.		

ENEMY ATTITUDE.

Quieter, with the exception of the trench system East of HAMEL and HAMEL Village which is still heavily shelled. At 10.20 p.m. enemy put down a heavy barrage on our lines in response to our harassing shoot; all calibres up to 5.9 used and Trench Mortars.

AIRIAL ACTIVITY.

Quiet on both sides. Several E.A. crossed our lines but were driven off. One of our 'planes dropped bombs on E. front line at P 21 b at 2 p.m.. Enemy balloon up during afternoon at approx. 80° C.E. from P 16 a 1 3.

MOVEMENT.

Isolated parties engaged during afternoon in K 31 a 5 7, Q 7 a 8 7 and Q 8 d 8 5. At 9 p.m. light engine pulling trucks in an easterly direction seen in Q 26 c and d.

VISIBILITY.

Hazy in the morning; improving to fair in the afternoon.

MISCELLANEOUS

At 2 p.m. several rounds of shrapnel burst over HAMEL; the burst was a pink colour (AUSTRIAN shrapnel bursts give a pink smoke).

C. Rowan, Lieut.,
Staff-Lieut., 4th Aust. D

12/18

CONFIDENTIAL.

186 DAILY INTELLIGENCE REPORT

for period

12 noon 9th to 12 noon 10th July 1918.

OUR ARTILLERY.

During the day Calibration was carried out and ZERO lines were checked. A party of enemy were scattered by our fire in P 17 a, and a working party at K 31 c 7210. Active T.M's were engaged at P 22 a 0 3., K 31 c 4830. During the night harassing fire was carried out at irregular intervals on all roads and approaches and points of assembly. The road in P 17 c 43 received special attention, also K 31 c and d, and at 3.5 a.m. a 5 minute concentration shoot was put down on Left Group front, creeping from S.O.S. plus 100^x - S.O.S. plus 400^x.

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Nature	Rds.	Area Shelled	G.B.	Observed from.
11 a.m.	5.9	12	O 17 a & b.	112°	O 17 d 5593.
11.20 am	4.2	30	O 17 & 18.		
2 p.m.	4.2)				
	5.9)	120	P 10 b & d.		
2.15 pm	(4.2				
	(5.9	100	HAMEL		
2.30 pm	H.V.Gun			136°	J 27 b 7 6.
10 p.m.	4.2	12	P 7		
	4.2)YellowHeavy				
10 p.m.	77)BlueX "				
	5.9)Phosg. "		J 36 b & c		
11.45 pm	4.2	12	P 7 c.		
12.5 a.m.	5.9	10	O 18 b.		

GRID bearings were obtained as follows :-

- 1.30 p.m. H.V. Gun, F.B. 138° from J 27 a 8515.
- 2.30 p.m. H.V. Gun F.B. 136° from J 27 b 7 6
- 7 p.m. 4.2 How. S.B. 112° from O 17 b 3510.

ENEMY ATTITUDE

Fairly quiet in the Battery areas. A few cases of Hostile registration occurred. Very active on North of SOMME. Our Front line was heavilg shelled during the evening. At 10 p.m. this locality was gassed with Yellow X, Blue X and Phosgene . Enemy appears to be very nervous and alert.

AERIAL ACTIVITY

Enemy balloon observed very close up at 12.40 p.m., T.B. 136° from J 26 d 08, fired on by 60-pounders. One E.A. flew low over VAUX at 2 p.m., driven off by M.G. fire. Balloons observed at 113° and 136° from J 26 b 08. Bombs were dropped during day on onemy front line trenches.

MOVEMENT

Much movement seen at Dump in Q 23 a, 6" Guns fired on this. A lot of movement was seen in K 25 b and d, parties seen during the day at Q 13 c.

P.T.O./.....

42

1865

APPENDIX *b*

Intelligence continued (2)

FROM 4th AUSTRALIAN DIV, SUMMARY AND OTHER SOURCES

A trench is being dug from the Cemetery in J 36 c to J 36 b 9585. M.Gs have been located at P 17 a 34, P 22 a 28, P 6 c 11, J 35 d 22.

T.Ms are reported at J 36 d 64, K 31 c 37, and P 22 a 00.

The 13th Div. is expected to be relieved in the VAIRE WOOD Sector by the 233rd Div.

Translation of captured letter written by a private of the 12th Coy. 201st R.I.R. on 6/7/18 to a friend in the 266th P.A.R.

Dear Paul,

Received your letter to-day. We are now on the SOMME. We are also having an exciting time. The English are here opposite us. He has just made three attacks ; he has taken our front line and collared out first and second Battalions. Yesterday morning he nearly collared us. During the past night the whole Company was withdrawn to the third line. We are to hold this third line and have left one platoon with one machine gun in front line. If he attacked again now he will finish us. It would be better if he did capture us.....

C. H. Rowan Lieutenant,
Recon. Officer,
4th Australian Divisional Artillery.

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

DAILY INTELLIGENCE REPORT

for period

noon 10th to noon 11th July 1918.

OUR ARTILLERY.

Some registration was carried out. Small parties of the enemy in P 20 a 3 2 - P 29 b 0 6 - P 23 d - 24 c 28 b and 11 d were effectively dealt with, and buildings at Q 1 c 5020 bombarded. At 6.5 a.m., 6.30 a.m. and 6.45 a.m., working parties in P 11 d and P 12 a 3 0 were engaged by 18-prs. with good results. At night usual programme of harassing fire was carried out, special attention being paid to roads through P 18 b from P 18 Central - Q 7 c 2 5 and the road through P 12 c to Cross Roads P 18 b; also party in K 31 a, b, c and d.

Tracks

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Calibre	Rounds	Area	G.B.	Obs. from
9.45 - 11 a.m.	4.2	80	J 27 a	100	J 27 b 7060
10 a.m. to noon	77 mm.	40	J 27 a		
11.30 a.m. to 11.45 a.m.	4.2	60	J 35 a, b, c & d.	100°	do.
11.50 a.m.	"	-	P 13 c	100	do.
12.30 p.m.	77 mm	12	P 19 a & c	100	dp.
3.30 - 4.30pm	150 & 105 mm.	120	P 10 b & d		
3.40 p.m.	5.9	40	J 36 b & c		
4 to 5 p.m.	4.2	-	P 15 c	97°30'	P 15 c 9 9
7.55 p.m.	"	60	P 16 a & d) P 11 a, b & c)	(129° (132° (135°	J 29 b 7060
8.5 p.m.	5.9	20	P 11 a & b	133°	J 27 b 7060
7.15 a.m.	77	50	O 18 a	125°	J 20 c 8 1

ENEMY ATTITUDE.

Quiet except for harassing fire. Our front in J 36 b and c is still receiving attention.

AERIAL ACTIVITY.

Slight. E.A. crossed our lines at 1 p.m. and set fire to one of our observation balloons. At 9.45 a.m. 3 enemy balloons up T.B. 117°20' - 146°62' from J 27 b 7060.

MOVEMENT.

13 lorries seen on WARFUSEE Road. Continuous movement in Q 22 a 9 9. Some wagons and mounted men seen here. Between 5 a.m. and 6.30 a.m. parties of men in P 29 Central. Considerable movement around a dump on a T.B. of 125°30' from J 27 b 7585 and possibly in R 8.

4th AUST. DIV. SUMMARY AND OTHER SOURCES.

An enemy dug-out at P 11 b 3 5 was successfully rushed by our patrol and one enemy was captured and two killed.

Ch Rowan

Lieut.,
Staff-Lieut.,

4th Australian Divisional Artillery

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

CONFIDENTIAL. DAILY INTELLIGENCE REPORT

for period
noon 11th to noon 12th July.

OUR ARTILLERY.

During the day ZERO lines were checked. Dugouts at P 12 a 2035 and P 12 a 0 0 were shelled; direct hits were observed. Party of 20 men at Q 9 d 3 2 was dispersed. Batteries firing from Q 14 d Cent. and Q 14 c 3 8 were engaged and silenced. Parties in Q 1 a and P 12 d were fired on and dispersed. During the night areas in Q 8 c, Q 13, P 18 a, Q 7, P 12, a, b, and c were harassed. An area shoot was put down on P 17 d. The RIGHT Group fired on area S.O.S. plus 400 to S.O.S. plus 800; roads and approaches to ACCROCHE WOOD received special attention.

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Calibre	Rds.	Locality shelled	G.B.	Obs. from
1.15 p.m.	10.5 cm.	20	P 11 a and b	132° S.B.	J 27 b 7060
2 p.m.	"	40	J 27 b and a	101° "	do.
1.10 p.m.	77	25	HAMEL	142° F.B.	J 28 b 3 2
1.54 p.m.	77	50	J 29 d	95°	do.
2 p.m.	77	50	P 5 c	135°	J 28 b 3 2
3.30 p.m.	77	50	P 4 c 1 1	124°	do.
2.30 p.m.	15 c.m.	15	CORBIE	70°	I 30 b 3 9
3.30 p.m.	10.5 c.m.	25	P 11 a	131° 30' SB	J 27 b 7060
4 p.m.	15 c.m.	15	HAMEL	129° 20'	J 27 b 7060
4 - 9 p.m.	H.V.	50	CORBIE		
4.20 p.m.	10.5 cm.	10	P 20 b, P 15 c	100°	P 19 a 5 6
6.15 p.m.	77	25	P 10 b	138°	J 28 b 3 2
6.30 p.m.	15 c.m.	20	HAMELET		
6.30 p.m.	H.V. Gun		I 24 c 0 0	110°	I 23 b 6020
12.20 p.m.	15 c.m.	10	HAMELET		
6.30 a.m.	"	8	O 6 b		
10.40 a.m.	H.V. gun		Back Areas	108° F.B.	P 19 c 1 9
12 a.m.	"		" "	116°	P 19 a 4575

ENEMY ARTILLERY.

Quiet, with scattered harassing fire over forward areas. A slight increase of H.V. gun activity is reported.

AERIAL ACTIVITY.

Owing to unsettled weather conditions, there was little aerial activity. A few E.A. crossed our lines in the early morning but were engaged by A.A. fire. A.A. Balloons up at dawn. 145°, 170°, 70° on G.B. from J 28 b 3 2.

MOVEMENT.

The visibility was excellent and much movement was observed in the back areas; all movement within range was engaged by the Artillery. Screens have been erected on the WARFUSEE Road. The heap of chalk in RECORD WOOD is reported to be a dugout. Movement was seen there. A M.G. is suspected at P 12 a 0 0. A large camouflaged dugout was observed at Q 24 d 3 6.

FROM 4th AUST. DIV. SUMMARY & OTHER SOURCES.

MISCELLANEOUS.

Enemy M.Gs. are located at P 6 central and P 6 b 2555. Active T.Ms. located at approx. J 36 d 5 4 & P 22 a 0 0. At 7 p.m. 50 rounds of 77 mm fell in P 22 a (enemy F.L.). Numerous white lights were put up by the enemy. this morning at an early hour the French attacked in the direction of MOREUIL, on a front of 6500 yards. All objectives were obtained; Village of CASTEL has been captured and spur W. of MOREUIL and further South, giving command over Valley of the AURE in that locality. No further details at present.

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

DAILY INTELLIGENCE REPORT,
for period
noon 12th to noon 13th July 1918.

JR
ARTILLERY.

During daylight enemy parties in P 22 were fired on and casualties inflicted; parties at P 22 d, P 23 b, K 31 c 8 4, cross roads at Q 7 a, huts in Q 1 c and RECORD WOOD were engaged.

During the night TAILLOUX WOOD was searched by the RIGHT Group for 6 minutes and roads and tracks were harassed; a creeping barrage was put down at 3.5 a.m. S.O.S. plus 500 to S.O.S. plus 1000 yards for five minutes. The valley in Q 13 a and b and Q 8 c was searched and areas in P 17 and 18, P 12 c and d, QUARRY at K 31 c 8 3, Bridge at Q 1 c 3 7 and wood at K 31 a 5 8 received bursts of fire during the night.

HOSTILE
ARTILLERY.

Areas shelled were :-

Time	Ca libre	Rds.	Area shelled	G.B.	Obs. from
11.45 a.m.	77	25	P 5 and P 10	130°	J 28 b 3 2
12.30 p.m.	77	40	P 11 a	132°	J 27 b 7060
3 p.m.	77	50	J 30 a & b	110°	J 28 b 3 2
3.40 p.m.	77 & 4.2	40	J 26		
4.30 p.m.	77	40	J 30 a and b	110°	do.
5 p.m.	77	40	J 30	110°	do.
5.30 p.m.	77 & 4.2	80	J 26		
10.15 p.m.	4.2	24	O 17 d	108°	O 17 d 5595
10.15 p.m.	77	40	O 12 c		
1 a.m.	5.9	20	FOUILLOY		
5.45 a.m.	4.2	20	P 1 b		
7 a.m.	5.9 H.V.	30	FOUILLOY		
8 a.m.	8" H.V.	20	FOUILLOY.	143°	J 28 b 3 2
12 noon	77		P 11 a	134°30'	J 20 c 9 1

Bearings were obtained to hostile guns as follows :-

12" How.	G.F.B.	137°	from	J 27 b 7 6
5.9 H.V. gun	"	141°	"	"
"	"	108°	"	P 19 c 1 9
H.V. gun	"	121°	"	J 20 c 9 1
"	"	156°	"	J 28 b 2525
"	"	147°	"	do.

ENEMY'S
ATTITUDE.

Owing to the good visibility many flash bearings were obtained to enemy guns, particularly long range H.V. guns which were more active than usual. Enemy artillery was quiet with the exception of 77 Batteries which were more active than usual on the Divisional front.

AERIAL
ACTIVITY.

Slight during the period. Only a few E.A. seen over our lines. A good many bombs were dropped on back areas by E.A. during the night. Hostile balloons were observed on the following G.Bs. :-

168°	from	J 20 c 8 1
122°	"	J 28 b 3 2
155°	"	do.
170°30'	"	J 27 b 7060
173°30'	"	do.
222°30'	"	do.
227°30'	"	do.
127°	"	do.
153	"	P 19 a 4570.

MISCELL.

At 8 p.m. a large dump exploded at approx. R 26 d and 3 explosions were seen at dump at Q 15 b 5 3. Much individual movement was seen behind enemy lines and all movement within range was engaged. Visibility was good.

C. Rowan Lieut.,
Staff-Lieut..

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT

APPENDIX 6

for period
noon 13th to noon 14th July 1918.

OUR
ARTILLERY.

Registration was carried out during the day. A wagon seen at P 30 c and M.Gs. at P 6 c 1005 were fired on. At 7.20 p.m. a concentrated shoot was put down on Eastern edge of TAILLOUX WOOD. Much enemy movement was reported from there. 4.5" Hows. fired on roads and dugouts in K 31 c 3 5 and a dump was set on fire at K 31 c 1 1. Parties of enemy at Q 2 c and P 17 d were effectively engaged. Suspected O.P. at P 18 a 2 0 was engaged. During the night harassing fire was carried out on GAILLY Bridge and centres of activity in Q 13 and 14, Quarry at K 31 c 8050, Q 2 a and K 31 d, P 23, P 17 Cent. and creeping barrage on Right Group S.O.S. plus 500 yards - S.O.S. plus 1000 yards. Roads and tracks in P 11 and 12 were fired on at irregular intervals. Trench Mortars fired 20 rounds registration on P 22 a 0050 and P 17 a 1020, and 20 rounds on K 31 a and 20 rounds on M.G. at J 36 d 2 4

HOSTILE
ARTILLERY.

Areas shelled were :-

Time	Calibre	Rds.	Area shelled	G.B. or location	Obs. from
noon	4.2	20	O 17 Cent. (Shrap)		
1.40 p.m.	"	20	J 36 a & b	90° S.B. from J 27 b 7060	
1.45 p.m.	"	20	P 5 b & c	135° 20' S.B. from J 27 b 7060	
2.54 p.m.	77	30	J 29 b & d	130° from J 28 b 3 2.	
2.50 p.m.	4.2	30	O 23	123 from P19c19	
"	"	30	O 29	113° " "	
3 p.m.	"	30	J 27 b	103° " J27b7060	
5 p.m.	77	15	P 4 d (Registration).		
8.15 p.m.	5.9	15	O 18 a 4620	117° " O 12 c 6 2	
8.20 p.m.	"	20	O 12 b	(117° " O 12 c 6 2 (120° " P 19 c 1 9	
8.30 p.m.	4.2	20	O 18 a		
9 p.m.	"	24	O 6 c	108 " O 17 d 5595	
10 p.m.	4.2HV	30	O 11 d		
10 - 10.30 p.m.	5.9 H.	60	O 12 c	105° " O 12 c 6 2	
1 - 1.30 a.m.	77 mm	200	O 12 c 6 1 H.E. & Shrap.		
3.30 a.m.	4.2	30	O 17 b (gas).		
11.15 a.m.	77		P 11 a	Q 8 c 1 9	

The following bearings were obtained to hostile Batteries:-

Bearings	From	Nature
134° 30'	J 20 c 9 1	77 mm.
121° 30'	J 27 b 7060	4.2
129° 30'	"	"
108°	O 17 d 5595	"
127° 40'	J 27 b 0250	A.A. Bty.
138°	P 19 c 1 9	77
120°	"	5.9 How.
142°	J 28 b 3 2)	
121° 30'	J 20 c 8 1)	77 mm.
134° 30'	J 20 c 8 1)	"
130°	J 28 b 3 2)	4.2
113°	J 20 c 8 1)	"
135°	J 28 b 3 2)	"
143°	J 28 b 3 2)	A.A.

ENEMY
ATTITUDE.

Fairly quiet except in the evening on the Right Group Sector, where one of our Batteries was fired on by a 5.9" How. Battery, and harassing fire was heavier.

AERIAL
ACTIVITY.

Slight activity on both sides. A few E.A. seen in the evening.

At 8.45 p.m. 5 E.A. attempted to cross our lines; 3 were driven off by A.A. fire but two E.A. attacked three of our kite balloons near BUSSY and brought two down in flames; these fell near PONT NOYELLES and BONNAY.

Enemy balloons observed :-

94 ⁰	G.B.	from P 19 a	4570
120 ⁰	"	"	"
175 ⁰	"	J 27 b	7060
159 ⁰ 30"	"	"	"
158 ⁰	"	"	"
177 ⁰ 15'	"	J 28 b 3 2	

FROM 3rd Aust. DIV. SUMMARY AND OTHER SOURCES.

During the night of the 12th the flank of the Right Inf. Brigade was advanced about 280 yards.

Line now runs P 21 d 2 8 - P 21 b 1050 to where front line crosses RATION ROW.

The number of prisoners taken by the French near MOREUIL exceeds 600 and 80 M.Gs..

MOVEMENT.

A great deal of movement was observed in the back areas.

A Dump at Q 24 d in a clump of trees is a centre of activity. The trench at Q 9 b 1 3 is probably a M.G. post; movement was seen there.

At 7.30 p.m. a great deal of movement was observed in P 23 a and East of TAILLOUX WOOD. This was fired on by the RIGHT and SUPERIMPOSED Groups.

Arthur Roberts Capt.

for Lieut.,
Staff-Lieut.,

4th Australian Divisional Artillery.

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

CONFIDENTIAL.

DAILY INTELLIGENCE REPORT

For period
12 noon 14th to 12 noon 15th July.

OUR ARTILLERY.

A wiring party at P 28 b 6 3 was engaged four times during the day and individual movement at P 23 d was harassed. Fire was put down on P 6 d 0 0. & GAILLY and Suspected H.Q. at P 18 a 5 5. Registration was carried out; a hostile Battery at approx. Q 14 b 2000 and a suspected Battery position at Q 9 a 0020 were fired on; the former was silenced.

Harassing fire was put down during the night on TAILLOUX WOOD. Centres of activity in P 23, P 16 d, P 17, K 31, P 6 and Q 1 and roads and approaches were searched at irregular intervals.

HOSTILE ARTILLERY.

Areas shelled were :-

Time	Calibre	Rds.	Area shelled	G.Bs.	Obs. from
2.30 - 6 p.m.	4.2	100	O 18 a & c		
2.7 p.m.	"	20	J 36 a	92°20'	J 27 b 7060
2.25 p.m.	18-pr.	30	J 30 c & J 36		
4.25 p.m.	4.2	20	J 36 a	MALARD WOOD 92°30'	J 27 b 7 6
4.50 p.m.	18-pr.	50	J 36 a	MALARD WOOD	
7.37 p.m.	77	20	J 15 c	120°	J 19 d 3 5
8.42 p.m.	77	20	P 11 c	123°	J 27 b 7 6
8.43 p.m.	4.2	20	J 36	131	"
9.15 p.m.	5.9	90	O 30 b & d	113°	P 19 a 4576
9.45 p.m.	"	20	P 20 b		
11 p.m.	77	25	O 12 c		
11.35 a.m.	5.9	20	O 30 b	115°	P 19 c 1 9.

The following G.Bs. were obtained to hostile guns :-

Calibre	Bearing	From
77 mm.	135	J 27 b 7060
4.2	98	"
"	130	"
77	123	"
77	134°30'	J 28 b 3 2
4.2	110°	P 19 c 1090
"	120°30'	J 28 b 3 2

ENEMY ATTITUDE.

Quiet. An 18-pr. Battery was reported from the MALARD WOOD Group and was fairly active on F.L.T. in J 36 and P 5.

AERIAL ACTIVITY.

A few E.A. were seen during the period. Balloons were observed on G.Bs. --

59, 67, 95, 115, 123, 133, 138° from P 19 c 1 9
112, 119, 148°30', 116°30' " J 28 b 3 2
115°30', 110°, 94, 141°30' " J 20 c 8 1

Our patrols were active at dawn. A few bombs were dropped in ACCROCHE WOOD during the evening.

MOVEMENT.

Individual movement was observed in Q 19 b; personnel of balloon Section seen at Q 18 c 2 4; much movement reported in Valley at Q 13 c.

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

SECRET.

ORDER NO. 160

HEADQUARTERS,
29th June 1918.

1. In view of the fact that the forthcoming operations must essentially consist of a surprise attack on the enemy, and consequently no registration, preliminary bombardment or practice barrage is possible for the covering Artillery, all Group, Brigade and Battery Commanders will ensure that the following measures are most strictly and carefully observed by all concerned before and during the actual barrage.
2. Battery positions and pivot guns will be intersected and fixed by the Survey Section. Gun platforms will be level, sound, with ample switch angles and trail butts.
3. Elevating, Ranging and traversing gears to be examined, Sight and Field Clinometers, and Range Dials to be carefully tested and the latter plainly marked as a check on any possibility of "slipping".
An Officer to be specially detailed at each Battery to check with a Field Clinometer the Q.E. when laid on the "Start Line", on each subsequent "lift", and while on the final "protective barrage". A Q.E. column will be added to the ordinary "switch" and "range" columns of each Battery "Barrage Table".
5. The whole barrage procedure will be rehearsed and checked (without firing) by each Battery as often as practicable before Z day.
6. Ammunition for the actual barrage to be carefully sorted and arranged by lots of fuzes and propellants. The number of Time Shrapnel and H.E. and Smoke required for each lift to be unmistakably and conveniently arranged with the time fuzes of the former set and checked.
7. The "angle of sight" will vary considerably during the progress of the barrage. This must be carefully calculated and necessary relative "corrector" correction made.
8. A "corrector length" must be used which will give 50% of time shell on "graze". Air bursts must be kept well down. The usual 10 minute burst does not apply to a "creeping barrage" (vide G.H.Q. Artillery circular No. 5, para. 3 (A)).
9. 103 fuzes are NOT to be used in the 18-pr. barrage, either when moving or standing, not at any time when firing within 400 yards of our Infantry in the open.
10. Watches are to be most accurately synchronised throughout the covering Artillery.
11. ACKNOWLEDGE on form attached.

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

DISTRIBUTION OVERLEAF.

DISTRIBUTION.

Copies	No.	To
1	- 16	SOUTHERN Group.
17	- 40	RIGHT "
41	- 60	CENTRE "
61	- 73	LEFT "
	74	4th Aust. D.A.C..
	75	4th Aust. D.T.M.O..

For information :-

	76	R.A. Corps.
	77	H.A. "
	78	"G" 4th Aust. Div..
	79	2nd Aust. D.A..
	80	3rd " "
	81	4th Aust. Inf. Bde..
	82	12th " " "
	83	13th " " "
	84	6th " " "
	85	11th " " "
	86	3rd Squadron A.F.C..
	87	55th Squad. R.A.F..
	88	C.R.A..
	89	B.M..
	90	S.C..
	91	R.O..
	92	File
93	- 95	Diary
	96	Spare.

186 ✓

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY. COPY NO.

SECRET

ORDER NO. 161

HEADQUARTERS,
29th June 1918.

1. Should an S.O.S. Signal or message be received during this present period the following procedure will be adopted :-

- (a) RIGHT Group will open with 6 18-pr. Batteries plus
CENTRE " " " " 2 4.5" How. Batteries.
LEFT " " " " 4 18-pr. Batteries plus
1 4.5" How. Battery.
3 18-pr. Batteries plus
2 4.5" How. Batteries.
- (b) All remaining Batteries, in position, will "stand to" but remain silent until orders are received from their respective Group Commanders to open fire. Group Commanders will only issue these orders when it is obvious from their knowledge of their respective fronts, that an enemy attack is developing or has been launched, and that the employment of all Batteries, and consequent revelation of our greatly increased Artillery strength is justified.

2. Ranging and datuming of incoming Batteries.

It is imperative that no regular "registration" is attempted by incoming Batteries. A very few ranging rounds may be fired, however, provided that such fire is limited to 3 rounds per gun, to be fired in Groups not exceeding two or three rounds. Actual enemy targets, i.e. trenches, junctions, posts, etc. readily identified on map and ground, should be selected for this purpose, close to the hostile front line. This limited and intermittent fire will be covered by usual harassing fire from Batteries or Sections in old positions. Group and Brigade Commanders will exercise the strictest supervision regarding this procedure and will ensure that no increase in daily expenditure takes place nor any noticeable departure from usual routine firing.

3. Ammunition.

The following ammunition per gun and How. will be dumped at Battery positions :-

18-prs.	--	600 rounds	(60% A, 30% AX and 10% Smoke).
* 13-prs.	--	600 "	60% N, 40% NX.
4.5" How.	--	400 "	(90% EX, 10% Smoke)

*(The Reserve R.H.A. Brigade detailed for special purpose will only require 300 rounds per gun)

4. ACKNOWLEDGE on form attached.

[Signature]
Major,
Brigade-Major,
4th Aust. Divisional Artillery.

DISTRIBUTION OVERLEAF.

DISTRIBUTION.

1	-	24	RIGHT Group.	
25	-	44	CENTRE "	
45	-	57	LEFT "	
		58	SOUTHERN "	
		59	3rd Aust. D.A..	} for inf.
		60	"G" 4th Aust. Div..	
		61	R.A. Aust. Corps.	
		62	File	
63	-	65	Diary.	
		66	Spare	
		67	C.R.A..	
		68	B.M..	
		69	S.C..	
		70	R.O..	

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

COPY NO...

SECRET.186 ✓
ORDER NO. 162HEADQUARTERS,
30th June 1918.REFERENCE MAPS, 62D, N.E., N.W., S.E., S.W., 1/20,000.

1. The 78th Brigade R.F.A., the 79th Brigade R.F.A. and 1 Section of 17th Div. Ammunition Column will move into action in "B" Division, AUSTRALIAN CORPS Sector, on night 1st/2nd July 1918.

Movement will not take place before 9.30 p.m. on 1st July and will be completed, and limbers returned to wagon lines by 4.30 a.m., 2nd July.

2. The two Brigades in action will become two Sub-Groups under the orders of the Officer Commanding the RIGHT Group "B" Divisional Artillery.

(RIGHT Group Headquarters is situated at O 10 a 9 6 (Hospice).

Positions of Brigade Headquarters and Battery positions have been selected by the RIGHT Group Commander.

3. Advanced parties will be met by an Officer from the RIGHT Group Headquarters at O 9 b 2 2 at 2 p.m. on 1st July.

4. A full echelon of ammunition will be dumped at Battery positions on arrival and increased to 600 rounds per gun (18-pr.) and 400 rounds per How. (4.5") by 4 a.m., 3rd July, 1918.

5. Camouflage may be drawn at H 19 c 1 0.

6. ACKNOWLEDGE on form attached: (Nos. 1 - 12 by wire).

DISTRIBUTION.

1 RIGHT Group.
2 - 6 78th Bde. R.F.A.
7 - 11 79th " "
12 Sect. 17th D.A.C..

(13 A.P.M. 4th Aust. Div..
(14 "G" " " "
for (15 R.A. Aust. Corps.
inf (16 12th Aust. Inf. Bde..
(17 13th " " "

18 File
19 21 Diary.

22 C.R.A..
23 B.M..
24 S.C..
25 R.O..

W. H. H. H. H.
Major,
Brigade-Major,
4th Aust. Divisional Artillery.

SECRET.

ORDER NO. 163

HEADQUARTERS,
1st July 1918.

REFERENCE MAPS,
Sheet 62D, N.E., N.W., S.E. & S.W., 1/100,000.
and P.A. Lorraine Map (LAFONVILLERS 1/20,000.)

1. INTENTION :-

An attack will be delivered on the left of the 2nd Aust. Div. Front and on the 4th Aust. Div. Front on a date and hour which will be notified later, with a view to the capture of the spur running from the main VILLERS BRETONNEUX Plateau at P 25 Central, about 1000 yards East of VAIRE and HAMEL WOODS, East of HAMEL to the present front line at the S.E. end of BOUZENCOURT. On the Right and Centre of this advance, the objective includes no defined system of trenches. On the Left, from East of HAMEL Village (inclusive), it is defined by an old British trench system at present used by the enemy.

2. INFANTRY DISTRIBUTION :-

The attack will be delivered by the following formations :-

6th Aust. Inf. Bde. (less 2 Battalions).
4th Aust. Inf. Bde. (plus 2 Companies United States Infantry)
11th Aust. Inf. Bde. (plus 2 Companies United States Infantry)

in that order from RIGHT to LEFT under the orders of the G.O.C., 4th Aust. Division.

3. FIELD ARTILLERY DISTRIBUTION :-

The Field Artillery is divided into four Groups comprising 15 Field Artillery Brigades and in addition, one Reserve R.H.A. Brigade is detached for a special purpose. Composition of Groups is shown in TABLE "A" attached.

BOUNDARIES :-

<u>SOUTHERN</u>	(South	-- E. & W. line through P 25 d 0 4.
<u>GROUP</u>	(North	-- E. & W. line through P 19 Central.
<u>RIGHT</u>	(South	-- E. & W. line through P 19 Central
<u>GROUP</u>	(North	-- E. & W. line through P 8 d 0 5
<u>CENTRE</u>	(South	-- E. & W. line through P 8 d 0 5
<u>GROUP</u>	(North	-- RIVER SOMME.
<u>LEFT</u>	(South	-- RIVER SOMME
<u>GROUP</u>	(North	-- K 25 c 0050 - J 25 c 0 0 - thence along grid line due West.

4. ARTILLERY CO-OPERATION WITH INFANTRY AND TANKS :-

From ZERO minus 8 minutes to ZERO HOUR a limited portion of the Artillery will carry out a synchronised harassing shoot using 90% High Explosive and 10% Smoke Shells in order to drown the noise of the approaching tanks and screen them from view; details of this task will be included in the programme of synchronised shoots to be carried out on Y/Z night. The advance of the Infantry and Tanks will be covered by a barrage in depth consisting of 18-pr., 4.5" How. 200 yards beyond the 18-pr. barrage line, and 4" How. 200 yards beyond the 4.5" How. barrage line. The Infantry and Tanks will move up as close as possible to the barrage.

APPENDIX

5

FIELD ARTILLERY TASK :-

TRACING "A" (attached) showing approximately the Infantry Tape line and objective and the Artillery Start Line and Artillery HALT LINE (marked in tracing HALT LINE), is issued for a guidance only. An accurate barrage map will be issued later.

From ZERO HOUR onward the SOUTHERN, RIGHT and CENTRE Groups commencing at the Start Line will creep Eastward in lifts of 100 yards until the ARTILLERY HALT LINE (marked on tracing HALT LINE) is reached, and remain on this line for 10 minutes, then creep Eastward in lifts of 100 yards to the final protective barrage line which is a line 400 yards East of the final objective, and remain on this line until ZERO plus 123 minutes.

The 4.5" Hows. will remain on the final protective barrage line for 5 minutes, then advance 800 yards Eastward at the rate of 200 yards in five minutes, moving forward and backward over this area until plus 123 minutes.

One Battery per Brigade will be superimposed over the Brigade front.

One Battery per Group will be detailed to answer all L.L. calls using 106 fuzes when H.E. is employed.

The 4.5" How. barrage will always be 200 yards E. of the 18-pr. barrage. All fire ceases at ZERO plus 123 minutes unless further required.

6..

LEFT GROUP TASK :-

At ZERO HOUR barrage S.O.S. line and creep forward in 100 yard lifts conforming to the time and lifts laid down in Barrage Map up to ZERO plus 41 minutes.

At ZERO plus 41 minutes, the barrage will drop back on to the S.O.S. line and the former procedure will be repeated.

Should any active M.G. or T.M. remain in the above barrage area any Battery whose "lane" covers such positions, will, on reaching them in the first barrage, remain on these targets throughout the operation.

After completion of the second barrage, Batteries of the LEFT Group not engaged on M.G. or T.M. targets, will search and sweep spurs, and valley in Squares J 35 d - J 36 and K 31 a up to ZERO plus 123 when fire will cease.

7.

The 16th R.H.A. Brigade will be in action on the high ground between the ANCRE and the SOMME and from ZERO onwards will engage all targets appearing East of the creeping or standing barrage.

When not engaged on moving or other targets, or should the smoke prevent such action, the Batteries will harass all roads, tracks and covered approaches leading to and from the creeping barrage on its EASTERN SIDE.

Particular attention will be given to the reverse slopes and covered portions of the valley which the "final protective barrage line" traverses, and also ACCROCHE WOOD.

At ZERO plus 123 minutes, unless still covered by smoke screen, these Batteries will stop firing and remain in positions of observation ready to deal immediately with any enemy targets which may appear east of the "final protective barrage line".

Unless orders are subsequently issued to the contrary, these Batteries will be withdrawn to their respective wagon lines during the night of Z/A day, refill, and be in readiness to reinforce any position in the line.

/S

8. RATES OF FIRE :-

18-prs.

Up to the protective barrage line 3 rounds per gun per minute, except as follows :-

At ARTILLERY HALT LINE reduce to one round per gun per min. for 8 minutes and quicken to 3 rounds per gun per minute before lifting off that line.

On the final protective barrage line the rate of fire will be 1 round per gun per minute.

4.5" HOWS.

Up to the protective barrage line, 2 rounds per How. per min., reducing to one round per How. per min. at the ARTILLERY HALT LINE for 8 minutes and quickening to 2 rounds per How. per min. before lifting off that line.

On the final protective barrage line the rate of fire will be one round per How. per minute.

18-prs. and 4.5" Hows.

Fire will be maintained at 3 rounds per gun and 2 rounds per How. whilst on the ARTILLERY HALT LINE by Batteries of the RIGHT Group covering from P 15 c 8439 to P 15 b 0025 and by Batteries of the CENTRE Group covering from P 9 d 7491 to P 4 c 5210.

9. AMMUNITION :-

18-prs. Up to the ARTILLERY HALT LINE 50% shrapnel, 40% H.E. and 10% smoke.

106 fuzes will NOT be used.

During the barrage the corrector employed must ensure 50% grazes.

The first round per gun at ZERO HOUR will be Smoke, and each gun arriving at

- (1) the ARTILLERY HALT LINE, and
- (2) the final protective barrage line,

will fire 3 rounds of smoke in quick succession to indicate that the barrage has halted.

4.5" HOWS.) 90% B.X. (The restriction as to the use of 106 fuzes
) 10% Smoke (in para. 9 of ORDER No. 160 does not apply
) (to the 4.5" Hows. engaged in the barrage.

10. THE DIVISIONAL ARTILLERIES ON EITHER FLANK :-

"A" Divisional Artillery will Smoke the high ground in P 26 and P 27 and in addition barrage "A" Div. front.

"C" Divisional Artillery will Smoke the high ground about X 26 from ZERO to ZERO plus 123 and in addition will barrage "C" Div. Front.

11. SPECIAL COY. R.E. will co-operate with smoke projectors on SAILLY LAURETTE and the high ground on the Right flank of the attack.

/18

ORDER NO. 103 (Continued).

14.

LIAISON :-

Liaison Officers not below the rank of Captain will be detailed as follows :-

<u>SOUTHERN GROUP</u>	-	1	Officer with the 6th Aust. Inf. Bde.
<u>RIGHT</u>	"	1	" " " 4th " " "
<u>CENTRE</u>	"	1	" " " 11th " " "
<u>LEFT</u>	"	1	" " " 12th " " "

These Officers will report to Inf. Brigade Headquarters at 9 a.m. on Y day.

15.

S.O.S. :-

Should any S.O.S. Signal or message be received during the period of ONE HOUR BEFORE ZERO to ZERO HOUR, the S.O.S. lines for 18-pr. and 4.5" How. Batteries covering the SOUTHERN, RIGHT and CENTRE GROUPS will be their respective "ARTILLERY START LINES" on the Barrage Map.

16.

ANTI-TANK GUNS :-

All anti-tank guns will remain in their present positions throughout the operation and will not take part in the barrage. Should a counter-attack develop, they will be prepared to engage all enemy targets appearing within their arc of direct fire.

On consolidation of new objective, reconnaissance and preparations will be made in readiness for occupation of new anti-tank positions.

17.

SYNCHRONISATION :-

A Staff Officer from D.A.H.Q. will visit all Group Headquarters to synchronise Battery watches; time and date will be notified later.

18.

ACKNOWLEDGE on form attached.

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

Distribution overleaf.

ORDER NO. 163 (Continued)

DISTRIBUTION.

1	-	16	SOUTHERN Group. ✓✓
17	-	40	RIGHT " ✓✓
41	-	55	CENTRE " ✓✓
56	-	69	LEFT " ✓✓
70	-	74	16th R.H.A.. ✓✓
		75	4th Aust. D.A.C.. ✓✓
		76	4th Aust. D.T.M.O.. ✓✓

For inf :-

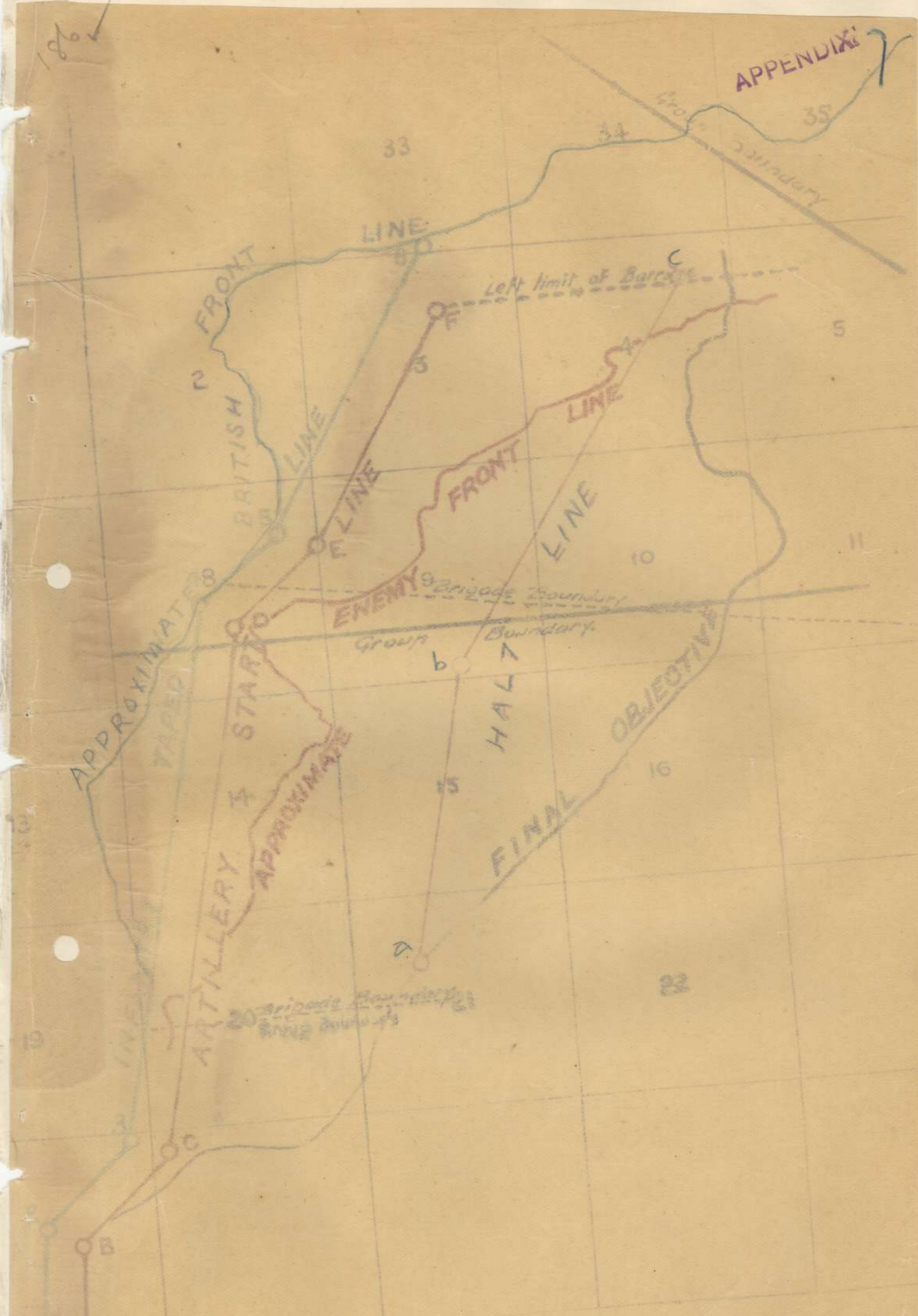
		77	R.A. Aust. Corps. ✓✓
		78	H.A. " " ✓✓
		79	4th Aust. Div.. ✓✓
		80	2nd Aust. D.A.. ✓✓
		81	3rd Aust. D.A.. ✓✓
		82	4th Aust. Inf. Bde.. ✓✓
		83	12th " " " ✓✓
		84	13th " " " ✓✓
		85	6th " " " ✓✓
		86	11th " " " ✓✓
		87	3rd Squadron A.F.C..
		88	35th Squadron R.A.F..
		89	C.R.A..
		90	B.M..
		91	S.C..
		92	R.O..
		93	Sig. Off. ✓
		94	File.
95	-	97	Diary.
98			Spare.

LEFT GROUP	CENTRE GROUP	RIGHT GROUP	SOUTHERN GROUP
Lieut.-Col. H.V. De SATGE, D.S.O..	Lieut.-Col. H.O. CADDY, D.S.O..	Lieut.-Col. T.I.C. WILLIAMS D.S.O..	Lieut.-Col. H.M. BALLINGALL D.S.O..
298th ARMY Brigade R.F.A..	11th Brigade Aust. F.A.	10th Brigade Aust. F.A.	23rd ARMY Bde. R.F.A..
Lt.-Col. H.V. De SATGE D.S.O.	Major P.J. ROSS, M.C..	Lt.-Col. T.I.C. WILLIAMS D.S.O.	Lt.-Col. H.M. BALLINGALL D.S.O..
Batteries H. A/298 - B/298 - C/298 - D/298	Batteries 41st 42nd 43rd 111th H.	Batteries 37th 38th 39th 110th H.	Batteries H. 107th 108th C/23 D/23 P. D/186
4th R.H.A. Bde. 3rd CAV. DIV. Lt.-Col. R.E. LASCELLES D.S.O.	13th Brigade, Aust. F.A. Lt.-Col. R.O. CADDY, D.S.O.	189th ARMY Bde. R.F.A. Lt.-Col. RAIKES, D.S.O.	179th ARMY Bde. R.F.A.. Lt.-Col. E.A. BLEV, OMC, DSO..
Batteries (13-pr.) "C", "K" & "CANADIAN Bty. RHA."	Batteries 49th 50th 51st 113th H.	Batteries 34th B/189 D/189 H.	Batteries 383rd 462nd 463rd 464th
235th Bde. R.F.A. (47th DIV.) Lt.-Col. W.S.L. ASCHWANDEN DSO.	14th Brigade, Aust. F.A. Lt.-Col. F.P. DERHAM, D.S.O.	78th Bde. R.F.A. (17th DIV.) Major C.F. MARSHALL DSO, M.C.	14th ARMY Bde. R.F.A.. Lt.-Col. C.F. ST JOHN, D.S.O..
Batteries A/235 B/235 C/235 D/235 H.	Batteries 53rd 54th 55th 114th H.	Batteries A/78 B/78 C/78 D/78 H.	Batteries. 88th 89th A/14 402nd
	150th ARMY Bde. R.F.A.. Lt.-Col. P.A. DIXON, D.S.O.	79th BRIGADE R.F.A. (17th DIV) Lt.-Col. L.W. WARREN, D.S.O.	
DETACHED FOR SPECIAL PURPOSE	Batteries A/150 B/150 C/150 D/150 H.	Batteries A/79 B/79 C/79 D/79 H.	
16th ARMY Bde. R.H.A. Lt.-Col. J.G.E. ALLARDYCE DSO.		236th Brigade, R.F.A. (47th Div) Lt.-Col. A.R. BOWRING.	
Batteries (13-pr.) "A" "Q" "U"		Batteries A/236 B/236 C/236 D/236 H.	

186

APPENDIX

APPENDIX I



Sheet 520 25 NE 1:20000

186v

APPENDIX 762

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

COPY NO.

SECRET.

186

AMENDMENT No. 1
to

HEADQUARTERS,
1st July 1918.

ORDER No. 163

1. Paragraph 9, AMMUNITION 18-prs.:-

After first sub-paragraph insert -

"For the remainder of the barrage,
75% Shrapnel, 15% H.E. and 10% Smoke"

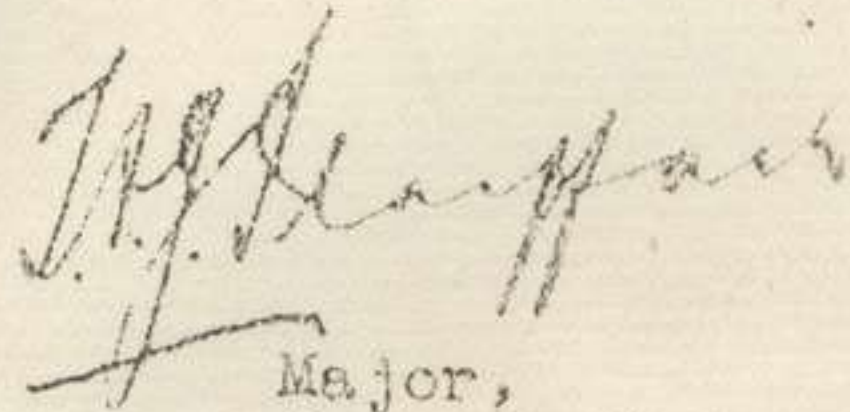
AMMUNITION, 4.5" Hows.:-

Add -

"75% of 108 fuzes will be used throughout
with H.E. "

The first round per How. at ZERO HOUR
will be Smoke."

ACKNOWLEDGE on form attached (Groups by wire).



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

DISTRIBUTION.

As for ORDER 163.

41
67

80

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

COPY NO. 44... 84

AUSTRALIAN
DIVL. ARTILLERY.

HEADQUARTERS,
3rd July 1918.

APPENDIX 7

SECRET.

186

REFERENCE ORDER NO. 163.

1. Y DAY is 3rd July 1918, Z DAY will be 4/7/18, A DAY will be 5/7/18.
etc..

2. REFERENCE PARA. 17 (SYNCHRONISATION) :-

A Staff Officer from D.A.H.Q. will visit Group Headquarters as follows. An Officer from each Battery will be present to take synchronised time :-

SOUTHERN GROUP	--	8.15 p.m..
RIGHT "	--	8.45 p.m..
CENTRE "	--	9.30 p.m..
LEFT "	--	10 p.m..

3. ACKNOWLEDGE by wire.

- 1 - 16 SOUTHERN Group
- 17 - 40 RIGHT " "
- " - 60 CENTRE "
- " - 74 LEFT "
- " - 78 16th Bde. R.H.A.
- 79 D.A.C..
- 80 D.T.M.O..
- 81 File
- 84 Diary.

W. J. Marshall
Major,
Brigade-Major,
4th Australian Div. Artillery.

- 85 C.R.A..
- 86 B.M..
- 87 S.C..
- 88 R.O..
- 89 Sig. Off.

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

APPENDIX 7

SECRET.

100

ORDER NO. 164

HEADQUARTERS,
2nd July, 1918.

1. The 4th and 11th Aust. Inf. Brigades will relieve the 13th Aust. Inf. Brigade and the Right Battalion of the 12th Aust. Inf. Brigade in the line on X/Y and Y/Z nights.

2. The allotment of Battalion and Brigade Headquarters will be re-adjusted during X/Y and Y/Z nights as under :-
 - (a) On X/Y night Brigade and Battalion Headquarters of 4th Aust. Inf. Brigade will be established as follows :-
 - (i) Brigade Forward H.Q. at present I. Bn. H.Q. in Quarry at Q 12 b 9 5.
 - (ii) 13th and 14th A.I. Bns. in existing H.Q. of Right Bn. of 13th A.I. Bde. at O 24 a 3 7.
 - (iii) 15th A.I. Bn. H.Q. in M.G. dugout at P 7 d 3 7.
 - (iv) 16th Bn. H.Q. in Quarry at O 12 b 9 5 (with Brigade forward H.Q.)

 - (b) On X/Y night Brigade and Bn. H.Q. of 11th A.I. Bde. will be established as follows :-
 - (i) Bde. forward H.Q. and 41st Bn. H.Q. at present Right Bn. HQ. of 13th A.I. Bde. at J 25 d 2740.
 - (ii) 42nd A.I. Bn. H.Q. in accommodation to be allotted at J 28 a 6 7 by mutual arrangement between 11th and 12th A.I. Bdes..
 - (iii) 43rd and 44th A.I. Bn. H.Q. at O 6 b 5 0.

 - (c) On Y/Z night Bn. H.Q. of 4th Aust. I. Bde. will be established as follows :-
 - (i) 13th A.I. Bn. at P 19 b 2 3
 - (ii) 14th A.I. Bn. at P 19 a central
 - (iii) 15 and 16th A.I. Bns. at P 8 c 2.

 - (d) Battalion Headquarters of Nucleus Garrison Battalion left in the forward area by 13th A.I. Bde. will be established at O 12 d 1 1.

3. The RIGHT Group will withdraw all personnel from the O.P. at P 19 a Central except 1 Observing Officer and 2 telephonists in order to provide accommodation for the 14th Battalion H.Q..

4. ACKNOWLEDGE on form attached.

J. H. Langford
Major,
Brigade-Major,
4th Australian Divisional Artillery.

DISTRIBUTION.

- | | | |
|----|---|----------------------------------|
| 1 | - | RIGHT Group. |
| 2 | - | LEFT " ----- |
| 3 | - | CENTRE : |
| 4 | - | SOUTHERN |
| 5 | - | "G" 4th Aust. Div..) |
| 6 | - | 4th Aust. Inf. Bde..) for inf.. |
| 7 | - | 14th Battalion A.I.F.) |
| 8 | - | File |
| 11 | - | Diary. |
| 12 | - | C.R.A.. |
| 13 | - | B.M.. |
| 14 | - | S.C.. |
| 15 | - | R.O.. |

SECRET.

136 ORDER NO. 165

HEADQUARTERS,
4th July 1918.

COUNTER (- PREPARATION.

1. COUNTER-PREPARATION LANES are bounded as follows :-

ON THE WEST : by a line S.O.S. plus 100 yards (to be known as START LINE).

ON THE NORTH & SOUTH :- by the E. and W. grid lines.

2. LANES will be numbered from RIGHT to LEFT as follows :-

Lane including	P 26 d	will be	No. 4
"	" P 27:b	" "	No. 5
"	" P 21 d	" "	No. 6
"	" P 22 a	" "	No. 7
	etc.		etc.
"	" K 25 d	" "	No. 16

3. LANES will be divided into 4 zones and lettered as follows :-

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

4. ACKNOWLEDGE on form attached.

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

DISTRIBUTION.

- 1 - 16 SOUTHERN Group.
- 17 - 40 RIGHT "
- 41 - 60 CENTRE "
- 61 - 74 LEFT "
- 75 - 78 16th Bde. R.H.A..
- 79 D.T.M.O..
- 80 4th Aust. Div. "G"
- 81 R.A. Aust. Corps.
- 82 H.A. " "
- 83 2nd Aust. D.A..
- 84 3rd " "
- 85 File
- 86
- 87 Diary
- 88
- 89 Spare.
- 90 C.R.A..
- 91 B.M..
- 92 S.C..
- 93 R.O..

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

COPY NO. 7

SECRET.

ORDER NO. 166.

HEADQUARTERS,
5th July 1918.

1. On the night 5th/6th July 1918, the following Brigades will be withdrawn from action with full echelons. Movement will not take place before 9 p.m..

2. The RIGHT GROUP :-

- 78th Brigade R.F.A.) Withdraw to W.L. and await instructions
- 79th Brigade R.F.A.) regarding movement on the 8th inst..

3. The CENTRE GROUP :-

- (a) 150th ARMY Brigade, R.F.A. withdraw to W.L. and march to ST SAUVEUR R.A. Sub-Area under orders to be issued by the Brigade Commander.
- (b) ROUTE :- QUERRIEU - ALLORVILLE - POULAINVILLE - LONGPRE.
- (c) TIME :- The march will take place between 10 p.m. and 3.30 a.m. night 5th/6th July 1918.
- (d) DISTANCES: Distances in accordance with 4th ARMY ROUTINE ORDER NO. 2039 will be maintained.
- (e) SUPPLIES : Supplies will be drawn from 5th Aust. Div. Pack up to 7th instant, for consumption on 9th instant.

4. The SOUTHERN GROUP :-

86th ARMY Bde. R.F.A. will relieve the 179th ARMY Brigade R.F.A. under orders issued by the 3rd Aust. Divisional Artillery.

5. ACKNOWLEDGE by wire.

W. Tomkinson Major,
for Brigadier-Major,
4th Aust. Divisional Artillery.

DISTRIBUTION --

- Nos. 1 - 3 RIGHT Group.
- 4 - 5 CENTRE "
- 6 SOUTHERN "
- 7 LEFT "
- (8 4th Aust. Div. "D"
- (9 3rd Aust. D.A..
- (10 R.A. Aust. Corps.
- (11 S.S.O., 4th Aust. Div..
- 12 File
- 13 15 Diary.
- 16 C.R.A..
- 17 B.M..
- 18 S.C..
- 19 R.O..
- 20 Spare.

for
inf.

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APPENDIX 7
COPY NO. ...

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

SECRET.

186
ORDER NO. 167

HEADQUARTERS,
6th July 1918.

1. Effect "C.P. SCHEME, Phase 1b" from 3.15 a.m. to 3.35 a.m. 7th instant.
2. The S.O.S. Line on the Northern half of the Divisional Front will be from 6 p.m., 6th instant to 3.15 a.m. on 7th instant
400 yards East of a line joining P 11 a 3 0 and J 30 d 6 0.

RIGHT and CENTRE Group Commanders will communicate with 12th Australian Infantry Brigade at 3 a.m. and obtain approval before dropping to the ordinary S.O.S. Line.

3. (a) The three Infantry Brigades are actively patrolling "B" Divisional Front.
The RIGHT and CENTRE Group Commanders will please obtain from Infantry Brigadiers a line East of which all harassing fire will be carried out on the Southern Half of the Divisional Front.
- (b) All harassing fire on Northern half of Divisional Front between 6 p.m. and 3.15 a.m. will be carried out East of the temporary S.O.S. Line.

4. Ammunition for harassing fire is allotted as follows :- (per day)

		<u>18-pr.</u>	<u>4.5" How.</u>	<u>13-pr.</u>
<u>RIGHT GROUP</u>	--	2000	600	--
<u>CENTRE GROUP</u>	--	2250	600	--
<u>LEFT GROUP</u>	--	1250	450	750

4.5" Hows. will fire gas at every opportunity when conditions are favourable.

Two thirds of allotment to be expended during darkness.

5. Harassing fire will be carried out under Group orders, in future.

6. GROUPS and Inf. Brigades acknowledge by wire

[Signature]
Major,
Brigade-Major,
4th Australian Divisional Artillery.

DISTRIBUTION.

- | | | | |
|--------------------|----|---------------------|--------------------------------------|
| No. 1 | Ro | RIGHT GROUP | 4th Australian Divisional Artillery. |
| 2 | | CENTRE " | |
| 3 | | LEFT " | |
| <u>For inf ---</u> | | | |
| 4 | | 4th Aust. Inf. Bde. | |
| 5 | | 12th " " " | |
| 6 | | 13th " " " | |
| 7 | | 4th Aust. Div. "C" | |
| 8 | | Corps R.A.. | |
| 9 | | File | |
| 10 | 12 | Diary. | |

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APPENDIX

7

186 ✓

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

Headquarters,
7th July 1918.

SECRET.

.....

Reference Order No. 168.

.....

- 1. ZERO hour will be 12.15 a.m. on the night
7th/8th July 1918.
- 2. Reference Para. 1, the 14th Aust. Inf. Brigade
is co-operating.

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

SECRET.

186 ✓ ORDER No. 168

HEADQUARTERS,
7th July 1918.

APPENDIX 7

REFERENCE MAP 62D 1/20,000.

1. A minor operation will be carried out by the 12th Aust. Inf. Brigade on the night 7th/8th July at an hour to be notified, with the object of straightening out the present front line from P 11 a 3 0 to J 30 d 5 0.

2. ARTILLERY CO-OPERATION :-

The LEFT Group "B" Divisional Artillery will cover the advance North of the River SOMME, with a creeping barrage. 18-prs. commence on the S.O.S. line and 4.5" Hows. on a line 300 yards East of the 18-pr. S.O.S. line, at ZERO HOUR then lift 100 yards at ZERO plus 3 minutes and remain on this line until plus 4 minutes, then creep eastward in lifts of 50 yards per minute until ZERO plus 14 minutes and remain on this line until ZERO plus 45 minutes.

The CENTRE GROUP will cover the advance South of the SOMME by placing an 18-pr. barrage from P 11 c 8 4 - P 11 Central to P 6 a 2500 and a 4.5" How. barrage 300 yards East of the line at ZERO HOUR, remaining for 3 minutes, then lift 100 yards at ZERO plus 3 minutes, remaining on this line until plus 4 minutes, then creep eastward in lifts of 50 yards per minute until ZERO plus 14 minutes, and remain on this line until plus 45 minutes.

The RIGHT GROUP will commence on RIGHT GROUP S.O.S. line and creep eastward, conforming to the times and lifts as laid down for the LEFT Group.

3. RATES OF FIRE :-

<u>ZERO to Plus 14 minutes</u>	--	(13-prs & 18-prs. 3 rds. per gun per min. 4.5 Hows. 2 " " how. " ")
<u>Plus 14 to plus 45min.</u>	--	(13-prs. & 18-prs. 1 " " gun " " 4.5 Hows. 1 " " how. " ")

AMMUNITION :- 60% A)
40% AX) 106 fuzes will NOT be used.
100% B.X. (13-prs. 60% N and 40% N.X.)

5. The S.O.S. LINE on completion of the operation will be -
P 21 b 4 0 - P 16 d 0 4 - P 17 a 0 4 - P 11 c 4 0 -
P 11 b 3 0 - K 25 c 8055.

6. "A" Divisional Artillery and "C" Divisional Artillery barraging the respective Divisional Fronts will conform to the times and lifts as laid down for the LEFT Group "B" Divisional Artillery.

The Heavy Artillery are requested to engage all known hostile Batteries from ZERO HOUR to ZERO plus 60 minutes.

7. SYNCHRONISATION :-

The R.O. 4th Aust. D.A.H.Q. will visit "B" Divisional Artillery Groups and 12th Aust. Inf. Brigade Headquarters between 8 p.m. and 9 p.m., 7th instant.

8. ACKNOWLEDGE by wire.

[Signature]
Major,
Brigade-Major,
4th Australian Divisional Artillery.

SECRET.

ORDER NO. 169

HEADQUARTERS,
8th July 1918.

1. On the night 8th/9th July 1918, the following Brigades will withdraw from action with full echelons.

Movement will not take place before 9 p.m..

2. RIGHT GROUP :- 236th Brigade R.F.A. will withdraw to wagon lines.
- LEFT GROUP :- 235th Brigade R.F.A. will withdraw to wagon lines.

4th Brigade R.H.A. will withdraw to wagon lines and march to POULAINVILLE Area in accordance with Aust. Corps ORDER No. 127 attached.

3. On the night 9th/10th July 1918 the 235th and 236th Brigades R.F.A. will march from wagon lines to ST SAUVEUR Area in accordance with Aust. Corps ORDER No. 127 attached.

4. ACKNOWLEDGE on form attached. (Groups by wire)

H. J. Morrison
Major,
Brigade-Major,

4th Australian Divisional Artillery.

DISTRIBUTION.

- | | | | |
|----|----|-------------------------|-------------|
| 1 | 2 | RIGHT Group. | |
| | 3 | CENTRE " | |
| | 6 | LEFT " | |
| | 7 | 47th D.A.. |) |
| | 8 | Div. "G" |) |
| | 9 | R.A. Aust. Corps. |) for inf.. |
| | 10 | S.S.O., 4th Aust. Div.) | |
| | 11 | File. | |
| 12 | 14 | Diary. | |
| | 15 | C.R.A.. | |
| | 16 | B.M.. | |
| | 17 | S.C.. | |
| | 18 | R.O.. | |

186 ✓

FOURTH AUSTRALIAN (DIVISIONAL ARTILLERY) COPY NO.

SECRET.

HEADQUARTERS,
8th July 1918.

ORDER No. 170.

1. PROVISIONAL GROUP BOUNDARIES :-

From 9 p.m. on the 8th instant, Provisional Group Boundaries will be as follows :-

RIGHT GROUP :- (as at present) { RIGHT - Div. Southern boundary E. & W. Grid line through P 20 central.
{ LEFT - E. & W. line through P 10 d 0 5

CENTRE GROUP :- { RIGHT - E. & W. line through P 10 d 0 5
{ LEFT - E. & W. line through J 36 d 0 4

LEFT GROUP :- { RIGHT - E. & W. line through J 36 d 0 4
{ LEFT - Northern Div. Arty. boundary J 25 c 0 0 - K 25 c 0 5 thence due East.

2. HARASSING FIRE FROM 9 p.m., 8th instant :-

The daily allotment of ammunition for harassing fire is :-

	18-pr.	4.5" How.
<u>RIGHT GROUP</u>	1250	400
<u>CENTRE GROUP</u>	2250	600
<u>LEFT GROUP</u>	750	200

two thirds of allotment to be expended during darkness.

3 LIAISON. Inf. Brigade Liaison will be provided as follows :-

RIGHT Group with RIGHT Inf. Bde., CENTRE Group with CENTRE Inf. Bde., and LEFT Group with LEFT Inf. Bde.

[Signature]
Major,
Brigade-Major,
4th Australian Div. Artillery.

DISTRIBUTION.

No.	1	RIGHT Group.			
	2	LEFT Group.			Issued at
	3	CENTRE Group.			3.45 p.m..
	4	D.T.H.O..			
	5	Div. "G")	13	Filo
	6	R.A. Aust. Corps.)		14	16
	7	H.A. " ")	for inf..		
	8	2nd Aust. D.A..)		17	C.R.A..
	9	3rd " ")		18	B.M..
	10	RIGHT Inf. Bde..)		19	S.C..
	11	CENTRE " ")		20	R.O..
	12	LEFT " ")			
				21	Spare.
				22	13th Bde. R.H.A..

SECRET.186
ORDER NO. 171HEADQUARTERS,
8th July 1918.

APPENDIX

1. The 16th Brigade R.H.A. will move into action covering "B" Divisional Artillery front on the night 9th/10th July 1918. Positions will be selected by the Brigade Commander.

Movement will not take place before 9 p.m. on 9th instant; and will be completed by 4.30 a.m. on the 10th instant.

Occupation of Battery positions will be reported to D.A.H.Q. by wire using Code Word "CORRECT".

2. AMMUNITION :-

200 rounds of ammunition per gun will be maintained at Battery positions. One full echelon will be dumped with the guns on the night 9th/10th July and remainder of establishment on the night 10th/11th July.

3. GROUP :-

In action the 16th Brigade R.H.A. will become the SUPERIMPOSED GROUP, "B" Divisional Artillery.

4. S.O.S. :-

For S.O.S. purposes one Battery will be superimposed over the S.O.S. Line of each Group (RIGHT, CENTRE and LEFT).

5. HARASSING FIRE :-

Harassing fire will be carried out within Battery zones. The daily ammunition allotment will be 250 rounds per Battery, two-thirds of which will be expended during the hours of darkness.

6. ACKNOWLEDGE on form attached (GROUPS by wire).ISSUED AT
3.45 p.m.DISTRIBUTION.

NOs 1 - 4 16th Bde. R.H.A.
5 - RIGHT Group.
6 - CENTRE "
7 - LEFT
8 - D.A.C..
9 - D.T.H.O.

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

For inf.-

10 4th Aust. Div. "G" 13 3rd Aust. D.A..
11 R.A. Aust. Corps.
12 2nd Aust. D.A.. File, Diary, etc..

SECRET.

ORDER No. 172.

HEADQUARTERS,
10th July 1918.

1. RE-ADJUSTMENT OF GROUPS -

(a) At 9 p.m. on 10th July 1918, the 11th Aust. F.A. Bde will be transferred from the CENTRE to the LEFT Group, "B" Divisional Artillery.

Batteries of 11th Aust. F.A. Bde will remain in present position.

At the same hour 298th ARMY Brigade R.F.A., less C/298 Battery will withdraw to Wagon lines and become the RESERVE Brigade, "B" Divisional Artillery.

(b) On completion of the above mentioned transfer the Command of the LEFT Group will pass from Officer Commanding 298th ARMY Brigade R.F.A., to Officer Commanding 11th Aust. F.A. Brigade. The LEFT Group will then consist of the 11th Aust. F.A. Brigade with C/298 Battery temporarily attached.

(c) C/298 Battery will be withdrawn from action to Wagon lines on the 11th instant.

The withdrawal will be by Sections and carried out as visibility permits, after 11 a.m. on the 11th instant.

(d) 298th ARMY Brigade R.F.A. will hand over all ammunition and R.E. material at Batterys positions to 11th Aust. F.A. Bde. Maps will NOT be handed over.

2. RE-ADJUSTMENT OF "B" DIV. ART. GROUP BOUNDARIES -

At 11 a.m. on the 11th July "C" Div. Artillery will become responsible for that portion of the S.O.S. line North of the present 4th Australian Divisional Boundary. At that hour "B" Div. Artillery Group Boundaries will become as follows :-

- RIGHT GROUP (SOUTH - Divisional Southern Boundary,
NORTH - E. and W. line through P 16 B 0 5.
- CENTRE GROUP (SOUTH - E. and W. line through P 16 b 0 5,
NORTH - SOMME River.
- LEFT GROUP (SOUTH - SOMME River.
NORTH - Northern Divisional Boundary, as follows :- E. and W. grid line to J 22 d 0 0, thence line through J 30 c 0 0 to intersection with Front line at J 36 b 2215, thence due East.

3. ACKNOWLEDGE (Groups and 11th Aust. F.A. Bde by wire).

Issued at 1.30 p.m.

Distribution overleaf.

[Handwritten Signature]
Major,
Brigade-Major,
4th Australian Divisional Artillery.

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APPENDIX 1
186

DISTRIBUTION

1. RIGHT Group,
2. CENTRE Group,
- 3 - 7 LEFT Group,
8. SUPERIMPOSED Group,
- 9 - 13 11th Aust. F.A. Bde,
14. 4th Aust. D.A.C.,
15. 4th Aust. D.T.M.O.,

16. 4th Aust. Div. "G".
17. R.A., Aust. Corps,
18. H.A., Aust. Corps,
19. 2nd Aust. D.A.,
20. 3rd Aust. D.A.,
21. G.B.S.O.,
22. R.A., Signals,
23. A.P.M.,
24. G.R.A.,
25. B.M.,
26. S.C.,
27. R.O.,
28. File.
- 29 - 31. War Diary.,
32. Spare.

FOURTH AUSTRALIAN DIVISIONAL ARTILLERYSECRET.ORDER No. 173.Headquarters,
10th July 1918.

1. (a) The 3rd Australian Division (less Artillery) will relieve the 4th Australian Division (less Artillery) in "B" Divisional Sector and Area on the nights 11th/12th and 12/13th July.
- (b) Command of the Divisional Sector and Area will pass at 10 a.m. on the 13th July, when/Divisional H.Q. will be established at COISY. 4th
- (c) On completion of the relief the following Artillery will pass under the orders of the G.O.C., 3rd Australian Division :-

16th R.H.A. Brigade,
4th Aust. Div. Artillery,
5th Aust. Div. Artillery,
189th ARMY Brigade R.F.A.,
298th ARMY Brigade R.F.A.

2. The C.R.A., 4th Australian Division will continue to Command the Artillery of "B" Divisional Sector.
3. On completion of the relief the 4th Australian Division will pass into Corps Reserve.
4. On the night 11/12th July - The 10th Aust. Inf. Brigade relieves the 4th and 13th Aust. Inf. Bdes with 3 Battalions in the line. RIGHT Bde H.Q., will be at CORBIE.
- On the night 12/13th July - The 9th Aust. Inf. Bde relieves the 12th Aust. Inf. Bde with 2 Battalions in the line. LEFT Bde H.Q., will be at J 19 c 4 6.
- On the night 12/13th July - The 11th Aust. Inf. Bde relieves the Units in the AUBIGNY Reserve Area.

5. LIAISON ARRANGEMENTS - Commencing night 11th/12th July.Infantry Brigade Liaison :-

RIGHT Group will provide One Officer with the RIGHT Inf. Bde.
LEFT Group " " " " " " " " LEFT " "

Each Liaison Officer will be in direct communication with his Group Headquarters.
Both Liaison Officers will be in direct communication with the CENTRE Group Headquarters.

Battalion/.....

Continued (2).

Battalion Liaison will be provided by night as follows :-

RIGHT Group. One Officer with the RIGHT Battalion of the 10th Aust. Infantry Brigade,

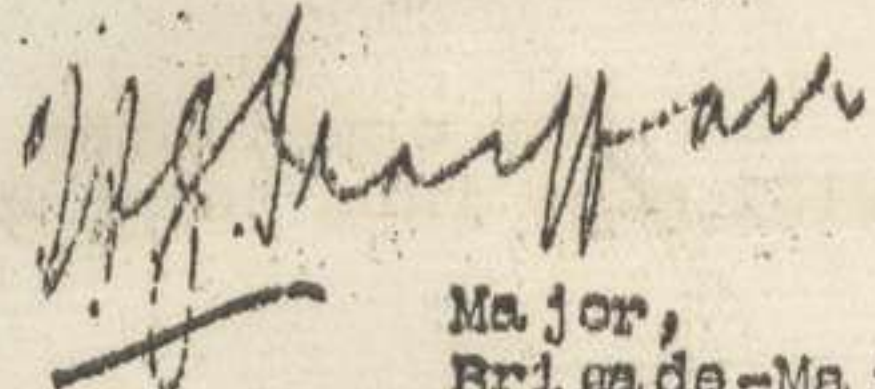
CENTRE Group. One Officer with the LEFT Battalion of the 10th Aust. Infantry Brigade.
One Officer with the RIGHT Battalion of the 9th Aust. Infantry Brigade.

RIGHT and CENTRE Groups.
(alternately) One Officer with the CENTRE Battalion of the 10th Aust. Inf. Brigade, commencing with a RIGHT Group Officer on the night 11/12th July.

LEFT Group. One Officer with the LEFT Battalion of the 9th Aust. Infantry Brigade.

8. ACKNOWLEDGE (Groups by wire).
=====

Issued at 4 p.m.



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

Distribution -

- 1 - 2 RIGHT Group,
- 3 - 4 CENTRE Group,
- 5 11th Aust. F.A. Bde,
- 6 LEFT Group,
- 7 Superimposed Group,
- 8 4th Aust. D.T.M.G.,
- 9 4th Aust. Div. 'G'.,
- 10 R.A., Aust. Corps.,
- 11 RIGHT Inf. Bde,
- 12 CENTRE Inf. Bde.
- 13 LEFT Inf. Brigade,
- 14 C.R.A.,
- 15 B.M.,
- 16 S.C.,
- 17 R.O.,
- 18 R.A., Sig. Officer,
- 19 - 20 Diary.
- 21 File.
- 22 Spare.

**

SECRET

186 ORDER NO. 174

HEADQUARTERS,
12th July 1918.

1. REFERENCE WARNING ORDER No. 5 of even date.
2. The 13th Aust. F.A. Brigade will withdraw with guns complete at 9.30 p.m. on the 13th instant and move into action by 3 a.m. on 14th instant to positions selected by the advanced party in "C" Divisional Sector. Wagon Line advanced parties will report to 2nd Aust. D.A. Headquarters, ST GRATIEN, at 10 a.m. on 14th instant. DEFENCE SCHEMES, ORDERS, etc. will be returned to 14th Aust. F.A. Brigade. R.E. material will be left at Battery positions and a list handed to O.C. 14th Aust. F.A. Brigade, to be subsequently delivered to incoming Commander.
3. The 1st Section 5th Aust. D.A.C. will move at 9.30 p.m. on night 13th/14th July.
4. Remaining reliefs and exchanges will take place as in WARNING ORDER No. 5.
5. Brigades will arrange for either B.Cs. or Battery Captains and the necessary personnel to remain in "B" Sector to hand over, the remaining personnel proceeding to "C" Divisional Sector, in accordance with WARNING ORDER No. 5
6. ALL Battery reliefs in "B" and "C" Divisional Artilleries will be complete by 11 p.m. each night. Brigade Headquarters' reliefs will be completed by midnight each night. The Div. T.M. exchange will be complete by 12 noon on 15th instant. T.M. advanced parties will proceed to D.T.M.O. Headquarters on 14th instant. D.A.C. reliefs will be completed by 12 midnight each night.
7. With the exception of the 13th Aust. F.A. Brigade, guns and mortars with sights will be handed over in action. All small stores and signalling equipment will be removed.
8. Battery Wagon Lines will move from "B" to "C" Div. Area on the night upon which the two Section reliefs of the Battery takes place. All movement to take place between 9.30 p.m. and 3.30 a.m..
9. Location statement is attached.
10. Command of the Artillery covering "B" Div. Sector will pass at 8 p.m. on 15th instant from C.R.A. 4th Aust. Div. to C.R.A. 3rd Aust. Div..
11. 4th Aust. D.A.H.Q. will close at BUSSY-les-DAOURS at 8 p.m. on 15th instant and re-open an hour later at RENANCOURT.
12. ACKNOWLEDGE on form attached. (Brigades, D.A.C. & D.T.M.O. by wire).

DISTRIBUTION
(overleaf).

J.H. Macphail
Major,
Brigade-Major,
4th Australian Divisional Artillery.

DISTRIBUTION.

Nos. 1 to	5	10th Aust. F.A. Ede..
6 "	10	11th " " "
	11	13th " " "
12 "	16	14th " " "
	17	189th ARMY Ede. R.F.A..
	18	298th " " "
	19	D.T.M.O..
	20	D.A.C..
	21	No. 1 Sect. 5th D.A.C..
	22	16th R.H.A..
	(23	4th Aust. Div. "C"
	(24	R.A. Aust. Corps.
	(25	RIGHT Inf. Ede..
for	(26	LEFT " "
inf.	(27	2nd Aust. D.A..
	(28	3rd " "
	(29	5th " "
	30	File.
31	33	Diary.
	34	C.R.A..
	35	B.M..
	36	S.C..
	37	R.C..

ISSUED TO SIGNALS at

1.30 a.m., 13th July.

SECRET.

LOCATION STATEMENT, ETC.

(To accompany 4th Aust. D.A. ORDER No. 174)

UNIT	RELIEVES	Gun Location	Wagon Lines	
			Rear	Advanced
10th Aust. F.A. Bde. Headquarters 37th Battery 38th Battery 39th Battery 110th How. "	5th Aust. F.A. Bde. Headquarters 13th Battery 14th Battery 15th Battery 105th How. "	J 1 c 5010 J 16 a 0732(4) J 16 a 3576(2) J 15 a 4453(2) J 14 a 4545(4) J 9 d 4313 (6) J 9 d 0697 (4) J 9 b 2040 (2)	C 25 d 5050 I 1 a 1090 B 24 d 6080 H 6 b 6065 H 6 b 3040	I 5 d C 23 c 6035 I 11 d 2060 D 19 d 5020
11th Aust. F.A. Bde. Headquarters 41st Battery 42nd Battery 43rd Battery 111th How. "	3rd ARMY Bde. A.F.A. Headquarters 7th Battery 8th Battery 9th Battery 103rd How. "	J 8 b 1555 J 4 c 2000 J 14 b 8000(4) J 9 a 0540 (2) J 4 d 1080 (4) J 4 d 2050 (2) J 9 a 8045 (2) J 9 c 8350 (2) J 8 b 5376 (2)	FRANVILLERS " C 21 c 5050 C 26 b 0065 C 21 c	I 6 c C 30 c 5080 I 23 c 9080 I 6 c 3080
14th Aust. F.A. Bde. Headquarters 53rd Battery 54th Battery 55th Battery 114th How. "	4th Aust. F.A. Bde. Headquarters 10th Battery 11th Battery 12th Battery 104th How. "	D 13 d 5575 D 21 a 3558(4) D 21 b 9055(2) D 15 c 7237(4) D 14 b 9830(2) D 28 b 4798(5) D 29 c 0958(1) D 21 b 7060(6)	C 20 d 5000 B 30 c 7080 B 30 d 8080 B 30 d 8090 H 6 a 3000	C 24 b 9090 C 18 d 2080 D 13 c 1060 D 13 c 5040
4th Aust. D.A.C. H.Q. No. 1 Sect. " 2 " S.A.A.	2nd Aust. D.A.C. H.Q. No. 1 Section " 2 " S.A.A.		H 6 b 7 6 H 6 c 5 5 H 12 c central M 3 c 7 9 Attached Inf. Brigades	
4th Aust. D.T.M.O.	3rd Aust. D.T.M.O.	N 24 b 2 7		

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APPENDIX

79

SECRET.

186
ORDER NO. 175

HEADQUARTERS,
13th July 1918.

1. RE-GROUPING. At 9 p.m. on the 13th July 1918 the following alterations in the Grouping of the "B" Divisional Artillery will take place.
 - (a) The 14th Aust. F.A. Brigade will be transferred to the LEFT Group.
The 11th Aust. F.A. Brigade will become a Sub-Group of the LEFT GROUP.
Positions will not be changed.
 - (b) The CENTRE Group will cease to exist after the withdrawal of 13th Aust. F.A. Brigade. All orders etc. will be handed over to the O.C., 14th Aust. F.A. Brigade..
 - (c) SUPERIMPOSED Group will arrange S.O.S. lines accordingly.

2. GROUP BOUNDARY. Between the RIGHT and LEFT Groups will be an East and West line through P 10 c 0 5.

3. COMMAND OF GROUPS. Command of the LEFT GROUP will pass from
Officer Commanding 11th Aust. F.A. Brigade to
Officer Commanding 14th Aust. F.A. Brigade
at 9 p.m. on 13th July 1918.

Command of the RIGHT GROUP will pass from
Officer Commanding 10th Aust. F.A. Brigade to
Officer Commanding 189th ARMY Brigade R.F.A.,
at 2 p.m. on the 16th July 1918.

4. ACKNOWLEDGE (Groups by wire).

[Handwritten signature]

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

DISTRIBUTION.

- | | | | | | |
|---|---------------------|----|-----------------------|-----|-----------|
| 1 | RIGHT Group. | 7 | 3rd Aust. Div. "G" | 14 | C.R.A.. |
| 2 | CENTRE " | 8 | R.A., Aust. Corps. | 15 | B.M.. |
| 3 | LEFT " | 9 | 2nd Aust. DA.. | 16 | S.C.. |
| 4 | SUPER. " | 10 | 3rd Aust. D.A.. | 17 | R.Q.. |
| 5 | 4th Aust. D.A.C.. | 11 | 9th Aust. Inf. Bde.. | 18 | Sig. Off. |
| 6 | 4th Aust. D.T.M.O.. | 12 | 10th Aust. Inf. Bde.. | 19 | File |
| | | 13 | 11th Aust. Inf. Bde.. | 20) | |
| | | | | 21) | Diary. |
| | | | | 22 | Spare. |

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

COPY NO. 27

SECRET.

ORDER No. 176.

HEADQUARTERS,
30th July 1918.

1. The 4th Australian Divisional Artillery (less 4th Aust. M.T.M. Batteries) will be relieved and withdrawn to Wagon Lines under orders to be issued by the C.R.A. 5th Aust. Division.
2. On completion of relief the 4th Aust. Div. Artillery (less M.T.M. Batteries) will come under the command of the C.R.A. 4th Aust. Division.
3. On the night 3rd/4th August 1918 -
 - (a) The 11th Aust. F.A. Brigade (during the hours of darkness) will move to wagon lines in "A" Div. Sector under the orders of the Brigade Commander. On arrival in "A" Div. Sector this Brigade will become a Mobile Reserve Brigade under the orders of the C.R.A. 2nd Aust. Division. Advance Parties will report to 2nd Aust. Div. Arty. Headquarters at 2 p.m. on 2nd August for location of Wagon Lines, etc..
 - (b) The 10th Aust. F.A. Brigade and 4th Aust. D.A.C. will move to ST SAUVEUR Area. ROUTE and STARTING POINT will be wired later. ADVANCED PARTIES will report to Area Commandant ST SAUVEUR at 2 p.m., 31st instant.
4. Captain W.L. SANDERSON, at present attached as Liaison Officer with 37th (FRENCH) Divisional Artillery, will return to his Unit on completion of the relief of the 37th (FRENCH) Divisional Artillery on the 2nd August 1918.
5. ACKNOWLEDGE on form attached. (Copies 1 to 4 by wire).

J.G. Harpail
Major,
Brigade-Major,
4th Aust. Divisional Artillery.

- 1 to 10th Aust. F.A. Bde..
- 2 11th " " "
- 3 4th Aust. D.T.M.O..
- 4 4th Aust. D.A.C..
- For inf -
- 5 R.A., Aust. Corps.
- 6 4th Aust. Div. "G"
- 7 2nd Aust. D.A..
- 8 3rd Aust. D.A..
- 9 5th Aust. D.A..
- 10 Area Commdt., STSAUVEUR.
- 11 4th Aust. D.A.D.O.S..
- 12 S.S.O. 4th Aust. Div..
- 13 Capt. W.L. SANDERSON.
- 14 C.R.A..
- 15 B.M..
- 16 S.C..
- 17 R.O..
- 18 File
- 19 21 Diary.
- 22 Spare.

Issued to Signals at
12.45 p.m..

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APPENDIX 7

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY. COPY NO..

SECRET.

AMENDMENT No. 3
to
ORDER No. 176.

HEADQUARTERS,
1st August 1918.

1. The whole of paras. 2 and 3 and Amendment No. 1, 4th Aust. Div. Arty. ORDER No. 176, is CANCELLED and the following substituted :-
2. On completion of relief of the 4th Aust. Div. Artillery, less Medium Trench Mortar Batteries and S.A.A. Section, will come under the orders of the C.R.A., 3rd Aust. Division. Brigade and D.A.C. Commanders will report to C.R.A. 3rd Aust. Division at 10 a.m. on the 3rd instant..
3. Sections will proceed to Calibration Range as ordered by the Staff Captain, 4th Aust. Div. Artillery, but on completion of calibration will return to Battery Wagon Lines.
4. ACKNOWLEDGE on form attached. (1 to 4 by wire).

DISTRIBUTION.

- 1 to 10th Aust. F.A. Bde..
- 22 " 11th " " "
- 3 " 4th Aust. D.A.C..
- 4 " 4th Aust. D.T.M.O..
- 5 " Corps R.A..
- 6 " 4th Aust. Div. "G"
- 7 " 3rd Aust. D.A..
- 8 " Area Comdnt. ST SAUVENUR
- 9 " 4th D.A.D.C.S..
- 10 " S.S.C., 4th Aust. Div..
- 1 " 14th Coy. A.A.S.C..
- 2 " Capt. SANDERSON.

[Signature]
Major,
Brigade-Major,
4th Aust. Div. Artillery.

For inf :-

- 13 C.R.A..
- 14 B.M...
- 15 S.C..
- 16 R.O..
- 17 File
- 18 - 20 Diary.

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APPENDIX 7

FOURTH 4th AUSTRALIAN DIVISIONAL ARTILLERY. COPY NO. 15

SECRET. AMENDMENT NO. 1
to
ORDER NO. 176. HEADQUARTERS,
31st July 1918.

Para. 3 (a) :- Lines 2 and 4.

For "A" Div. read "B" Div..

Lines 5 and 7 :-

For "2nd Aust. Div." read "3rd Aust. Div.".

ACKNOWLEDGE on form attached.

DISTRIBUTION
As for ORDER 176.

C.H. Rowan Lieut
for Major,
4th Australian Div. Artillery. Brigade-Major,

FOURTH AUSTRALIAN DIVISIONAL ARTILLERYADMINISTRATIVE INSTRUCTION NO. 34SECRET.
=====Headquarters,
5th July 1918TO ACCOMPANY ORDER No. 166

Upon withdrawal of 16th R.H.A. Brigade, 150th ARMY Brigade R.F.A., and 17th Div. Artillery, ammunition at present on charge will be disposed of as follows :-

From gun positionsTo

16th Bde R.H.A.	CAMP dump.
150th ARMY Bde R.F.A.;	11th Aust. F.A. Bde.
78th Brigade R.F.A.;	10th Aust. F.A. Bde.
79th Brigade R.F.A.;	10th Aust. F.A. Bde.

Adjutants concerned will arrange that figures taken over correspond with those forwarded to D.A.H.Q.

Brigade Commanders of 10th and 11th Aust. F.A. Bdes will allot the ammunition taken over to their respective Batteries.

Brigades withdrawing will forward statement of ammunition being taken out in echelons, to D.A.H.Q. 2 hours before marching.

CAMP dump (H 22 b 2 8) except for 13-pdr. will close at 12 min-night 7th/8th July, after which time all 18-pdr and 4.5" ammunition will be drawn from VECQUEMONT.

All trench shelters drawn from Area Commandant, ALLONVILLE, will be returned by Brigades on marching from this area.

ACKNOWLEDGE on form attached.
=====

Arthur G. Wait
Captain,
Staff Captain,
4th Australian Divisional Artillery.

DISTRIBUTION

Normal.

16th Brigade R.H.A.,
150th ARMY Bde R.F.A.,
78th Brigade R.F.A.,
79th Brigade R.F.A.,
10th Aust. F.A. Bde,
11th Aust. F.A. Bde,
4th Aust. D.A.G. (CAMP dump).
A.R.P.,
RIGHT Group,
CENTRE Group,
LEFT Group,
R.A., Aust. Corps.
=====

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY COPY NO.....

SECRETADMINISTRATIVE INSTRUCTION No. 35.HEADQUARTERS,
6th July 1918.

Upon withdrawal of 4th Brigade R.H.A. and 47th Divisional Artillery, ammunition at present on charge will be disposed of as follows :-

From Gun positions

4th Brigade R.H.A.
235th Brigade R.F.A.
236th Brigade R.F.A.

To.

CAMP dump
298th Brigade R.F.A.,
10th Aust. F.A. Bde.

Adjutants concerned will arrange that figures taken over correspond with those shown on D.A.H.Q. returns.

Brigade Commanders of 298th Bde R.F.A. and 10th Aust. F.A. Brigade will allot the ammunition taken over to their respective Batteries.

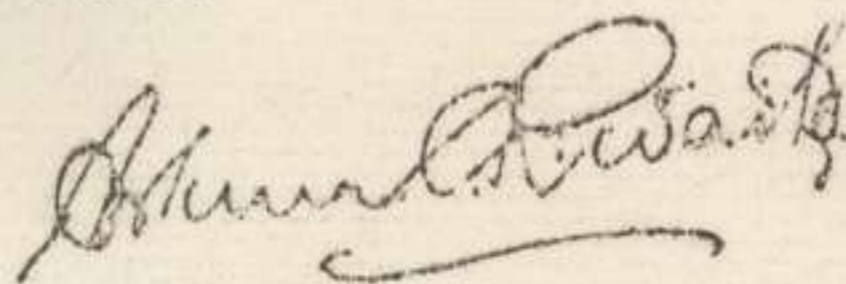
Brigades withdrawing will forward statement of ammunition taken out in echelons, to D.A.H.Q., 2 hours before marching.

Personnel of outgoing Brigades working on dumps will be withdrawn at 8 p.m. on the night of march to Wagon Lines.

All trench shelters drawn from Area Commandant, ALLONVILLE, will be returned by Brigades marching from this Area.

Brigade Commanders will ensure that all empty cartridge cases are returned to A.R.P., before moving out.

ACKNOWLEDGE on form attached.



Captain,
Staff Captain,
4th Australian Divisional Artillery.

DISTRIBUTION

4th Brigade R.H.A.,
235th Brigade R.F.A.,
236th Brigade R.F.A.,
298th Brigade R.F.A.,
10th Aust. F.A. Bde,
4th Aust. D.A.C.,
CAMP dump,
VECQUEMONT dump,

For information

11th Aust. F.A. Bde,
13th Aust. F.A. Bde,
14th Aust. F.A. Bde,
189th Brigade R.F.A.,

C.R.A.,
B.M.,
S.O.,
R.O.,
File,
War Diary,
Spare.

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APPENDIX. 7

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FOURTH AUSTRALIAN DIVISIONAL ARTILLERY

SECRET.

ADMINISTRATIVE INSTRUCTION No. X36.

Headquarters,
9th July 1918.

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 Lorrie (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 Arty. covering "E" Div. 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 mentioned in para. 3.
2. The supply forward of A.R.P., will be done by horse transport.
 - (a) In the case of Div. 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) Army Brigades : The supply and return of empties will be done under arrangements to be made by Os.C. concerned.
3. Brigades will draw from Dumps as under :-

VECQUEMONT

CAMP

A Battery R.H.A.		16th Bde R.H.A.
189th Bde R.F.A.		298th Bde R.F.A.
10th Bde Aust. F.A.		11th Bde Aust. F.A.
13th " " "	less	114th Battery A.F.A.
14th " " "	(114th Bty.)	

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

per 18-pdr. Gun	=	300 rounds.
4.5" How.	=	250 "
4.5" How. Bty.	=	300 " (GAS).
13-pdr. Gun	=	200

 All echelons filled.

WORKING PARTIES

5. A working party as follows will be kept on A.R.Ps. They will be rationed by the Units to which they belong :-
 - (a) VECQUEMONT -

4th Aust. D.A.C.	=	1 Off. 2 N.C.Os. 20 O.R.
189th Bde R.F.A.	=	2 N.C.Os. 12 O.R.
13th Aust. F.A. Bde	=	1 N.C.O. 6 O.R.
14th Aust. F.A. Bde	=	1 N.C.O. 3 O.R.
 - (b) CAMP -

298th Brigade R.F.A.	=	2 N.C.Os. 12 O.R.
4th Aust. D.A.C.	=	Sufficient additional personnel to ensure efficiency.

Any changes made necessary by the above para. will take effect from 10 a.m. 11th instant.

P.T.C. /.....

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APPENDIX 7

1865

Continued (2).

6. A.R.Ps will forward ammunition returns direct to D.A.H.Q.

EMPTIES

7. 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.

8. ACKNOWLEDGE on form attached.
=====

James R. ...

Captain,
Staff Captain,
4th Australian Divisional Artillery.

DISTRIBUTION -

Normal and A.R.P.

SECRET.

ADMINISTRATIVE INSTRUCTION No. 37.

186 ✓

Headquarters,
10th July 1918.

1. The following is the re-distribution of I.O.M., for use of the Artillery covering "B" Divisional Sector :-

<u>Brigade</u>	<u>Shop.</u>	<u>Location.</u>
16th Brigade R.H.A.	53	LONGPRE.
189th Brigade R.F.A.	53	"
292th Brigade R.F.A.	53	"
10th Aust. F.A. Bde.	17 & 47	CARDONETTE.
11th Aust. F.A. Bde.	17 & 47	"
15th Aust. F.A. Bde.	17 & 47	"
14th Aust. F.A. Bde.	17 & 47	"

It is essential that repairs of the respective Brigades go to the shop allotted.

2. ACKNOWLEDGE on form attached.

C. A. Rowan Lieut. for
Captain,
Staff Captain,
4th Australian Divisional Artillery.

Distribution -

Normal.

[Handwritten signature]

SECRET.

WARNING ORDER No. 5

HEADQUARTERS,
12th July 1918.

1. A re-adjustment of Australian Divisional and ARMY Brigades Artillery will take place between the nights 13th/14th and 14th/17th July 1918, as follows :-

2. ON THE NIGHT 13th/14th July :--

The 13th Aust. F.A. Brigade will be withdrawn complete from "B" Div. Sector and move into action in SUPERIMPOSED Positions in "C" Div. Sector.

One Section per Battery of the 8th Aust. F.A. Brigade (3rd Aust. Division) will relieve 1 Section per Battery of the 14th Aust. F.A. Brigade. The Sections relieved of the 14th Aust. F.A. Bde. will relieve Sections of the 4th Aust. F.A. Brigade (2nd Division) in "C" Divisional Sector.

One Section 5th Aust. D.A.C. will move to "C" Div. Sector.

ON THE NIGHT 14th/15th July : --

Two Sections of 8th Aust. F.A. Brigade will relieve two remaining Sections of the 14th Aust. F.A. Brigade. Two Sections of the 14th Aust. F.A. Brigade will relieve two Sections of the 4th Aust. F.A. Brigade.

One Section 5th Aust. D.A.C.	will move to "C" Divisional Sector
One " 3rd " "	will relieve One Sect. 4th Aust. D.A.C.
One " 4th " "	will relieve one Sect. 2nd Aust. D.A.C. in "C" Div. Sector.

3rd Aust. T.M. Brigade will exchange with 4th Aust. T.M. Brigade.

ON THE NIGHT 15th/16th July :--

One Section 7th Aust. F.A. Brigade (3rd Aust. Div.) will relieve one Section 10th Aust. F.A. Brigade. One Section of 10th Aust. F.A. Brigade will relieve one Section of 5th Aust. F.A. Brigade (2nd Aust. Div.) in "C" Div. Sector. One Section of 11th Aust. F.A. Brigade will exchange with one Section of the 3rd AUST. ARMY F.A. Brigade ("C" Div. Sector).

One Section 3rd Aust. D.A.C.	will relieve 1 Section 4th Aust. D.A.C.
One " 4th " " " " " 1 " 2nd " "	

ON NIGHT 16th/17th July :--

Two Sections 7th Aust. F.A. Brigade will relieve two Sections 10th Aust. F.A. Brigade. Two Sections 10th Aust. F.A. Brigade will relieve two Sections 5th Aust. F.A. Brigade. Two Sections 11th Aust. F.A. Brigade will exchange with two Sections 3rd Aust. ARMY F.A. Brigade.

3. ADVANCED PARTIES of 13th and 14th Aust. F.A. Brigades will be met by 2nd Aust. B.A. Guides at 10.30 a.m. on 13th instant at FRANVILLERS Church.

WARNING ORDER NO. 5 (Continued)

- 4. All guns and mortars will be handed and taken over 'in situ', except in the case of the 13th Aust. F.A. Brigade who will march out with guns complete.
- 5. Detailed orders will be issued later.
- 6. ACKNOWLEDGE on form attached (Groups by wire).

H. J. Morrison
 Major,
 Brigade-Major,
 4th Aust. Divisional Artillery.

Issued at
 7 p.m.

D TRIBUTION.

- | | | | | |
|-------|---|---|-----|--------------------|
| nos | 1 | - | 2 | RIGHT Group. |
| | 3 | - | 4 | CENTRE " |
| | | | 5 | LEFT " |
| | | | 6 | D.A.C.. |
| | | | 7 | D.T.M.O.. |
| | | | (8 | 4th Aust. Div. "G" |
| | | | (9 | R.A. Aust. Corps. |
| for | | | (10 | 2nd Aust. D.A.. |
| inf.. | | | (11 | 3rd " " |
| | | | (12 | 5th " " |
| | | | 13 | SUPER. Group. |
| | | | 14 | RESERVE Brigade. |
| | | | 15 | File |
| 16 - | | | 18 | Diary. |
| | | | 19 | C.R.A.. |
| | | | 20 | B.M.. |
| | | | 21 | S.C.. |
| | | | 22 | R.O.. |
| | | | 23 | Sig. O. |
| | | | 24 | Spare. |

FOURTH AUSTRALIAN DIVISIONAL ARTILLERY.

APPENDIX 7
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
- M.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. WRIGETS :-

- (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.E. Fuze 100 and 101 ...	18	8	-
do. Fuze 103 ...	18	3	6
do. Fuze 106 (brass) ...	17	15	7
do. do. (cast iron) ...	17	9	9
<u>Incendiary Shell</u> ...	18	10	11 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	6	15
M.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).

(g) Incendiary Shell fitted with fuze 80.

(h) Smoke shell with 106 and 101 E.

4. COMBINATIONS OF 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

4.

SHRAPNEL OTHER THAN MARK XII.

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

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.

N O T E S

ON 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 2½ or 4½.
 N.C.T. Size 5.
 Ballistite Size A 71
 R.D.B. Flake 2½ /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	14	7	3½	8	15½	11	9	15	14
									lb.	
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.

3. 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. 82 :-

- 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

II.

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