

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

Artillery

Item number: 13/33/34 Part 1

Title: Headquarters, 5th Australian Field
Artillery Brigade

September 1918



AWM4-13/33/34PART1

CONFIDENTIAL.

ORIGINAL.
DUPLICATE.
TRIPLICATE.

Australian Imperial Force.

WAR DIARY

OF

FIFTH FIELD ARTILLERY BRIGADE.

FOR

SEPTEMBER 1918.



Signature of Officer compiling

S. R. Roberts
Major

Signature of Officer Commanding

Francis K. K. K.
1918

1st. Sept. 1918.

11.30 a.m. to 1.30 p.m. Batteries instructed to fire intermittently onto MT. ST. QUENTIN and WOOD to 1 p.m. and from 1 p.m. to 1.30 p.m. to fire intense rates (4 rounds per gun and 3 per How. per minute) the Infantry rushed the Town at 1.30 p.m. and met with heavy Machine Gun fire. 12.50 p.m. Enemy balloons up looking all over our Country, this hampered the supply of ammunition to a certain extent in as much as wagons could not approach the Battery Positions during the times the balloons were up. Requests for the R.A.F. to destroy them were of no avail. 1.5 p.m. A lot of enemy movement reported along road in I.17 and I.18, Sheet 62a N.W. Edition 4b, and CARDINAL WOOD. 1.7 p.m. About 30 prisoners passed this Brigade H.Q. who were captured in PERONNE by 5th. Div. Infantry. 1.30 p.m. Owing to the advance of our Infantry the objective has not been gained but our Batteries have been instructed to reconnoitre positions in I.11, I.7, I.13 and I.14, in case of a likely move. 1.47 p.m. 13th. Battery and 14th. Battery shelled I.24.b and d, about 100 rounds. 3.7 p.m. An enemy 77 mm. Battery shelling our forward area was located and the information passed through to Counter Batteries. 6 p.m. D.A.H.Q. instructed us to move Batteries immediately across the River in order to support an operation in the morning. This also necessitates an immediate move of B.H.Q. Positions taken up were.- Brigade H.Q. H.12.central, 13th. Battery I7.a.3.5., 14th. Battery I.1.b.3.6., 15th. I.7.b.2.2., 105th. Battery H.12.c.75.80. 9 p.m. till 12 p.m. move completed and Batteries in action. During the night the Hun shelled 14th. and 15th. Batteries with H.E. and Gas; no casualties resulted. We are spending approximately on an average 6,000 rounds of 18-pounder and 1200 rounds of 4.5 Hows. daily. This necessitates very heavy work for all personnel. The animals are feeling the strain and unless we can get a spell very soon a number of them will become useless for a little time.

2.9.18.

5.30 a.m. All the Artillery on Australian Corps Front excepting our Brigade which was in support opened in support of an operation to advance our line East of MT. ST. QUENTIN to protect the Right Flank of Third Corps on our Left advancing our right flank to conform with the movements of our Fifth Division. One section of the 13th. Battery was placed at the disposal of 26th. Battalion and one section of the same Battery at the disposal of the 27th. Battalion to deal quickly with any Targets the Infantry required. These sections move forward at Zero hour and established themselves well forward; one section under Lieut. C.G. ROBERTS and the other under Lieut. J.R.S. EVANS. In many cases open sight laying was able to be employed on Machine Guns and moving Infantry. 10 a.m. to 10.30 a.m. Our Batteries placed a standing Barrage on the northern outskirts of AIZECOURT thus assisting our Infantry to capture a Battery of enemy 77 mm. 11.10 a.m. Reports were received from the forward sections stating the enemy barrage on the Western slopes approaching MT. ST. QUENTIN and Machine Gun fire from ST. DENIS WOOD were impeding their pushing forward. Enemy movement going Eastwards in I.18.a and b was engaged by 13th. and 14th. Batteries. 12.8 p.m. to 12.25 p.m. It was reported that the enemy was massing for a counter attack so a standing barrage was placed about 500 yards West of AIZECOURT at the rate of 2 rounds a gun per minute. 1.5 p.m. 14th. and 15th. Batteries each fired 100 rounds and the 105th. How. Battery fired 50 rounds on movement in vicinity of AIZECOURT. 3.15 p.m. The enemy throughout the day shelled all the area between MT. ST. QUENTIN and the SOMME River. 2/Lieut. A.

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Summary of Events and Information

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Army Form C. 2118.

ORIGINAL

5-14 A.F.A. B.D.E. September 1918

2.9.18 continued.

2/Lieut. A. MEHAN MM. was badly wounded at 11 a.m. and died before reaching Dressing Station. Lieut. C.G. ROBERTS was badly Gassed by an H.E. Gas shell; during the day 1 other rank was killed and 14 wounded. Lieut. J. MEHAN MC. was granted special leave on account of his brother's death to visit LONDON. 4 p.m. The Infantry decided to consolidate.

5.20 p.m. Three enemy balloons ascended opposite our sector, one very high and had splendid observation on the area in which our Batteries were located.

The enemy artillery quietened during the evening and remained quiet during the night. Our artillery carried out harassing fire during the night and between 3.55 a.m. and 4.55 a.m. each Battery fired 100 rounds from the start line 100 yards East of their S.O.S. Lines to a line 500 yards East.

Brigade H.Q. is located at H.12.central.

13th. Battery at I.7.a.3.5.

14th. " at I.1.b.30.35.

15th. " at I.7.c.20.20.

105th. " at H.12.c.85.46.

3.9.18.

Enemy artillery was very quiet throughout the day. 10 p.m. orders were received by phone that the Brigade would be relieved on the 4th. instant. Group H.Q. allotted us new S.O.S. Lines and instructions were also received and issued to increase the expenditure of ammunition for harassing fire during the night to 350 rounds per 18-pounder Battery (200 of which was to be expended between 4.7 a.m. and 5 a.m.) and 200 rounds per 4.5 How. Battery (100 between 4.7 a.m. and 5 a.m.). Enemy artillery activity increased as ours did. The heavies pumped a large quantity over and apparently the Hun expected another attack during the night.

Lieut. I.F. MACHHERSON, 14th. Battery located a number of flashes of enemy Batteries; this information was passed through to Group to be sent to Counter Batteries.

4.9.18.

10 a.m. Batteries and their wagon lines were instructed to prepare to move out to CAPPY Area tonight. Enemy artillery exceptionally quiet. The weather has been beautiful bright sunny days throughout the whole of the recent operations and a couple of light showers would be welcome. 3 p.m. The C.O., 298th. Brigade R.F.A., visited Brigade H.Q., and made final arrangements about the relief. His Batteries moving up straight away. 6 p.m. to 7 p.m. The 13th. 15th. and 105th. Batteries were relieved by A, C, and D Batteries (298th. Brigade) one Gun at a time on account of an enemy plane or balloon chancing to have seen them. The 14th. Battery was not relieved so just withdrew independently at 7 p.m. All Batteries and Brigade H.Q. were completely relieved and D.A.H.Q., informed accordingly. 7 p.m. to 8 p.m. The Brigade moved off by Batteries independently and by 11 p.m. were all fairly comfortably installed in shelters dugouts and tents on the banks of the SOMME between BRAY and CAPPY. Brigade H.Q. is located at the Mill L.22.a.4.4. Sheet 62c just East of BRAY and right on the bank of the SOMME.

5.9.18.

Swimming was indulged in and was much appreciated. The water was icy cold although the day was the usual bright and dusty day. 10 a.m. to 12 noon. The C.O., and Adjutant visited all Batteries who were very pleased to be in this locality. 13th. and 15th. Batteries had all their horses out grazing. The animals throughout the Brigade are keeping their condition well although the mules (donks) of the 105th. Battery appear rather fatigued, after the very strenuous work they have experienced during the past fortnight. The Howitzer Battery has been firing practically the same number of rounds as the 18-pounder Batteries and as their shell is much more awkward and bulky it necessitates

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5.9.18 continued.-

much additional carting in comparison. The 15th. Battery horses stand out ahead of any in the Brigade and without doubt in the Division, thanks to the care and attention of their Battery Captain - Captain A.S. MACPHERSON MC. 9 a.m. The 105th. Battery had a bathing parade at 9 a.m. for other ranks. The 14th. Battery commenced work on their guns and wagons. We expect to remain here for a period of about 10 to 12 days as some rumour states there is to be a ceremonial parade in about 10 days time. This parade if it comes off should prove most beneficial to all ranks. The men are getting very slack in their appearance on account of the long period kept in the Line without having the chance of any drill or brushing up. 6 p.m. A very heavy thunderstorm swept over this area and lasted about 3/4 of an hour and was one of the heaviest falls experienced during our period in this country. Quite like an Australian thunder storm.

9.18. The C.O., and Adjutant visited ABBEVILLE for the day. Batteries are taking every opportunity of getting wagons, harness and equipment properly washed and clean. Orders have been received to the effect that a ceremonial parade 2nd. Division is to be held in about 10 days time. We are co-operating with 4th. Brigade so as to get all Batteries to turn out as uniform as possible.

9.18. Work continues. Harness racks being erected, men being bathed and vehicles being cleaned. 3 p.m. C.O., and Adjutant visited 2nd. D.A.H.Q. A sport meeting consisting of one officer and one N.C.O. per Battery was held and Lieut. A.L. ROSE, 15th. Battery and C.C. BLOXSOME, 13th. Battery were appointed joint Hon. Secs. A programme of sports and lists of prizes was comprised. Wednesday the 11th. inst. will be sports day and the C.O., granted a whole day for the occasion.

8.9.18. An allotment for the baths in BRAY given to the Brigade and 150 men per Battery bathed and received clean clothing. Church Services (not compulsory) were held at the 13th. Battery 9.9.18. 10 a.m.

9.9.18. All the mules in the Brigade are being exchanged for horses from the Infantry, Engineers, Pioneers and other units. 13th. Battery exchanged 11, 14th. 28, and 15th. - 20, which leaves those three 18-pounder Batteries without any mules. 3 p.m. 58 mules from the 105th. Battery which were exchanged for horses (mainly heavy draught). The Batteries were not at all keen on leasing these mules, as they can stand much more hard work than the horses and never seem to get sick and knocked about as much as horses do. The C.O., and O.O., visited 4th. Brigade H.Q. The Adjutant rode to the Divisional Canteen and tried to arrange for the delivery of 14 barrels of beer for the sports on the 11th. instant, nothing definite could be arrived at.

10.9.18. Capt. A.S. MACPHERSON MC. is transferred from the 15th. Battery to the 14th. Battery and Capt. B. MINTER MC, from the 105th. to the 15th. Battery. Steady rain has set in early in the morning and continued throughout the day. The 4th. Brigade Sports have been postponed from today till tomorrow which necessitated our sports being postponed till 12th. instant. Batteries are continuing their work with horses, harness and vehicles also allowing the men as much rest as possible. 6 p.m. Orders were received for the Brigade to move to the first Div. Northern sector of Aust. Corps to be in Divisional reserve under Command C.R.A., 3rd. Div. Arty. Move to be completed before 4 p.m. 11th. inst.

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Army Form C. 2118.

Remarks and references to Appendices

D.D. & L. London, E.C. 4/17
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Date	Hour	Summary of Events and Information
11.9.18.		The Brigade moved off at 9 a.m. and marched to DOINGT Area Sheet 62c and took over wagon lines vacated by 16th. Brigade R.H.A. There were only vacant field however to occupy and positions were as follows. Brigade Headquarters J.25.b.5.7. 13th. Battery - 14th. " J.30.a.2.4. 15th. " J.31.d.4.6. 105th. " J.27.d.3.8. Rain had been falling continuously and the ground was very sloppy. Fortunately the afternoon was dry and the strong wind dried the ground up quickly and made the open air conditions more favourable for the night.
12.9.18.		10 a.m. Came under command of C.R.A., 1st. A.D.A. The day was very quiet and orders were awaited to go into the Line. 10 p.m. Orders were received for C.O., accompanied by Battery Commanders to report to Left Group H.Q. in the line at 10 a.m. 13.9.18, and arrange to take up Positions to be occupied on night 13.9.18.
13.9.18.		The C.O., and Battery Commanders visited Left Group H.Q. at K.27.a.48.90. Sheet 62c N.E. Battery Commanders then went forward to select positions. Positions which had to be selected were in the open and under shell fire which hourly seemed to grow in violence. B.H.Q. located K.26.a.30.80. There was hardly a sheet of tin between the whole of the positions. However the imperturbable initiative of the Australian as usual asserted itself, and before nightfall the guns and ammunition (150 rounds per gun or How.) were in positions and every one had cover of some sort - at least from the weather. The enemy indulged in considerable bombing activity during the night but no damage to the Brigade was done and to everyone's delight two of his machines were brought down by A.A. fire. The rain had all gone and the night was very fine. All the wagon lines except 14th. and 105th. Batteries moved forward during the night. 14th
14.9.18.		Arrangements are being made for an extensive attack to take place about the 18th. inst. This will be dealt with in the Diary on the morning of attack. Hostile artillery fire was a little more active than usual it was particularly noticeable that although the evening fire was consistent over all it was nearly all done by long range guns. This adds a little anxiety to the proposed attack for it certainly looks as though he has most of his artillery behind the Hindenburg Line and so will be in a secure position to impede our advance considerably. It is of course obvious that we will attempt to get into fighting positions opposite his famous line of defence. He is certainly in a position to subject us to more artillery fire than is customary.
15.9.18.		Little movement has been observed behind the enemy's lines but his artillery fire was very severe especially in the vicinity of battery positions. Fortunately we had no casualties which considering the intensity of the fire especially in the vicinity of 13th. & 14th. Batteries and the fact that there was no protection was surprising. The intensity of the fire necessitated the 14th. moving up to the left of the 15th. bty. where a little cover for the men was available. During the night a little gas fell round the 15th. Bty. but no casualties.
16.9.18.		In order to be in a better position for covering the advance the 13th. bty. had to move forward to K29a.40.50. during the night. Fine weather prevailed during the day but a heavy thunderstorm at night mingled with the enemy's shells to disturb the usual rest one expects during hours of darkness. Capt. I.R. Blake M.C. returned from leave U.K.
17.9.18.		11.30 a.m. Battery commanders conferred at B.H.Q. with C.O. to deliberate on the details of the attack to-morrow. The whole scheme was thoroughly gone into. The 105th. Bty. to continue the barrage until the infantry advance from positions covered by the Protective line, see attached barrage map and then will move forward according to needs of the infantry. The 15th. Battery have to cease firing at zero plus 20 minutes and take up a position

References to Appendices

(A7883) D. D. & London, E.C. 4/17 80h. 52a Forms/C/2118/14

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beyond the present enemy front line in order to cover the advance of our Infantry to the final objective. It means arduous work for this Battery as only an hour is allowed for the move, and after the selection of the position their barrage has to be worked out again; the 13th. and 14th. Batteries having air recuperators, will be able to cover the whole advance, and then move forward. XXXt

18.9.18.

A steady rain had set in, which continued for 2 hours after zero. However at zero - 5.20 a.m. as arranged - the attack commenced. The opening of the whole barrage was not good. According to our time the barrage on our left opened at least one minute before it was due, and therefore the start was a little ragged, however on our immediate front the opening was good. Prior to the attack the enemy had heavily gassed the valleys near our forward Batterys' positions, but happily it did not impede their opening. The advance met with little opposition. The enemy's retaliatory barrage though severe in parts, missed the Infantry as well as the Artillery. German prisoners stated they were ordered to put up a fighting defence but it evidently was not possible to fight in the face of our dense barrage which our Infantry so closely followed that the enemy's Infantry were not able to recover from the shock of the first before they were attacked and overcome by the latter. The work of the Batteries was not as difficult as it might have been the case in a bigger and more sustained advance but while all did consistently well in their allotted tasks, the performance of the 15th. calls for special mention. The steady rain had bemired the slippery tracks, observation was bad and time was very limited; 70 minutes only was allowed them between ceasing firing at 7.20 a.m. and opening fire in an advanced position nearly three miles ahead. However with the loss of only two horses killed, they were in action again at L.8.b.3.4. (Sheet FRANCE 62c N.E.) with 10 minutes to spare before the next advance to the second object began - successful work of no mean importance under the circumstances. Prior to the advance of the other Batteries, B.H.Q. temporarily moved to K.17.a.2.1. (Sheet FRANCE 62c N.E.) and then conformed to their forward movements. The positions of the Brigade at dusk were as follows:-

B.H.Q. L.8.c.05.88.
13th. Battery - L.2.d.20.20.)
14th. " - L.3.d.40.90.) Sheet FRANCE
15th. " - L.8.b.30.40.0) 62c N.E.
105th. " - L.10.a.23.15. }

The move was a strain on the horses for without held from the D.A.C. 300 rounds per 18-pounder and 250 per 4.5 How. were at the Battery positions before nightfall and all echelons were full. The afternoon was fine and helped dry the roads a little, but it was hard going, and every praise is due to the drivers for the care they took of their horses, which at the end of their hard day's work were little the worse. In addition to the above work B.H.Q., 105th. Battery had to move their wagon lines nearer to the battle zone during the night. This had been unwise and unsafe previously as in addition there is great difficulty in obtaining a good water supply away from the SOMME, wells being the only source at present. The night was very strenuous for the Batteries, as all country East of the S.O.S. had to be continuously harassed and prior to dawn heavy counter preparation was carried out. One feature of the Battery Positions was that they were amply supplied with cover for the men, at least against the weather if not shell proof. The enemy's planes bombed heavily throughout the night, but no damage to the Brigade was reported.

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INTELLIGENCE SUMMARY.

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Summary of Events and Information

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Place	Date	Hour	
	19.9.18.		The Brigade casualties during the attack were only one man wounded and three horses killed. Our S.O.S. for the night was the protective barrage line, (see appendix) the Infantry having gained all objectives on our front. On the left flank the 74th. Division did not carry out their allotted tasks but our flanks were sufficiently secure to leave no doubt concerning the safety of our front. It was surprising that the enemy did not carry out area shoots to prevent our consolidation of captured positions, but evidently he has better use for the most of his artillery - if he possesses it !! - elsewhere. His shelling was certainly consistent and continuous but never approached the sustained volume of our fire.
	20.9.18.		The weather is fine and the observation good. In order to be in a better and a more effective position for their spring guns the 15th. Battery moved forward to L.16.b.20.90 (Sheet FRANCE 62c N.E.). This Battery again had the misfortune to loose one man wounded and one horse killed in changing positions. We again gave the enemy no rest - harassed East of our S.O.S. Line severely all day and night. We had added to our animal strength 50 horses from remounts but handed over 25 mules in exchange. The horses are of a very poor quality and condition and will take a lot of building up before they attain the splendid working condition which is the present standard of the Brigade.
	20.9.18.		At 5.15 a.m. and 5.35 a.m. counter preparation for 10 minutes was carried out on Lanes 1000 yards in depth from 100 yards East of our S.O.S. Line. 18-pdrs. fired 3 rounds per gun a minute and Hows. 2 rounds. During the day and night we again severely harassed the enemy preventing all movement near his lines.
	21.9.18.		In order to conform to our front the 74th. Division attempted an attack on our left, which had to slightly move forward. See O.O. No.5. The 1st. Australian Infantry Brigade were entirely successful, and the 74th. Division substantially gained their objectives. It is noticeable that the enemy shell fire has decreased in violence. Later reports show that the attack this morning though successful in the initial stages proved a partial failure, for the English Division found its position untenable and fell back leaving our left flank exposed. However owing to the high country we were able to hold our advanced positions opposite the HINDENBURGH LINE. During the night the 15th. Battery had one man wounded and 5 gassed.
	22.9.18.		We maintained our usual harassing fire during the night viz. 600 rounds per 18-pounder and 100 rounds per 4.5 How.
	23.9.18.		do do do do The enemy's fire was severe on scattered areas. The 105th. How. Battery had one man die of wounds.
	24.9.18.		The usual harassing fire was carried out. Preparations are under way for a big attack on this front by the Americans (30th and 27th. Divs.) supported by Australian Divisions for exploiting purposes. The weather continues fine, the few showers and dull mornings being rather in our favour than otherwise. The enemy's aerial activity is most pronounced, and his efforts to maintain observation in the air have not been determined or so successful for many months.
	25.9.18.		The C.O., reconnoitred the forward areas for Battery Positions, and after consultation with the C.R.A., 1st. Aust. Div. and Left Group Commander, Battery Commanders were allotted L.5, in which to choose battle positions (Sheet FRANCE 62c N.E.). Positions were chosen as follows :- 13th. Battery - L.5.d.60.75. 14th. " - L.5.a.48.98. 15th. " - L.5.a.55.80. 105th. " - L.5.b.32.50.

(A.233) D.D. & L., London, E.C. Wt. W80g/M1672 350,000 4/17 Sch. 52a F. S. Regs./C.2118/14

26.9.18. As a preliminary to attack the enemy's defences are to be subjected to a 56 hours bombardment. This commenced at 9.30 p.m. 26.9.18 and 8 hour's Gas bombardment, in which the 18-pounders fired 300 rounds per Battery. The 4.5 Hows. did not participate until 8 hours later when they were occupied cutting barbed wire entanglements along the front of the HINDENBURG System of defences for the next 48 hours.

27.9.18.) These two days may be grouped together as the 18-
28.9.18.) pounder Batteries were detailed for a special and intense harassing fire programme. Each Battery expended 600 rounds during each 24 hours in shelling likely assembly areas, roads and tracks leading to his main positions of defence.

27.9.18.) In addition to this the Batteries had a very
28.9.18.) arduous time of carrying ammunition to positions selected for the attack on 29th. Positions had to be on the North of HARGICOURT and within 2,500 yards of the Infantry Jumping Off Line. The Batteries were located as follows :-

13th. Battery	-	G.5.d.20.80.) Sheet 62B.N.W.
14th.	"	G.5.b.50.40.	
15th.	"	G.5.b.40.60.	
105th.	"	G.5.b.30.00.	
B.H.Q.		G.10.a.30.40.)

The principal difficulty was the carrying of ammunition for the whole area North of and including HARGICOURT was subjected to continuous and intense fire by the enemy's guns. 500 rounds per 18-Pounder and 450 per 4.5 How. had to be lodged at the Battery positions prior to the attack. Great good fortune attended the Batteries for beyond one man killed, 5 wounded and 11 horses wounded and evacuated we had no casualties, and the ammunition was complete by midnight 28th. and all guns were then in position. It is difficult to speak of the work of the Drivers without appearing to be lavishing fulsome praise - which would be hateful to them - but something must be said. Most of them are old war-worn tired men. As in their many past sterdy achievements so on this occasion these men unflinchingly and unhesitatingly faced the shell torn roads and fire harassed areas through which their job lay - making trip after trip with a joke ever ready and smile on their faces to make their work appear light or cheer a new hand, with perhaps a growl now and again - but these stout-hearted men managed somehow to make even their growling humorous and cheerful and it never appears out of place or discouraging; and at midnight on 28th. the facts that the guns were ready and the ammunition supply complete for the attack are sufficient to those of us who know their work to place the Battery Drivers high in the ranks of the great gallant heroes who do the unchronicled work of preparation and supply in this war.

29.9.18. At 5.45 a.m. the 30th. American Division supported by Australian Infantry attacked. The weather was good. Light rain had fallen but the sun shone and everything was propitious for the onslaught on the famous German lines of defence, called the HINDENBURG LINE. The attack was successful in passing over all the main defences and some few hundred yards beyond. Owing to the fact that the American forces were raw to this kind of warface the mopping up was not good and no exploitation beyond the final objective was possible.

30.9.18. The night was fairly quiet and the Artillery merely harassed the enemy's lines of communication. Lieut. J.W. SALMON who was our Brigade F.O.O. was severely wounded on his return from the front and one other rank was killed.

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D. D. & L., London, E.C.
Wt. W809/M1672 350,000 4/17 Sch. 52a Forms/C/2118/14

SECRET.FIRST AUSTRALIAN DIVISIONAL ARTILLERY.
=====Copy No. 21
17/9/1918.OPERATION ORDER NO. 70
=====

1. (a) The Australian Corps is attacking the enemy to-morrow 18th September.
- (b) The 1st and 4th Australian Divisions are taking part in this attack.
- (c) The Zero Hour will be notified separately.
2. (a) The 1st Australian Division is being supported by 8 Brigades of Field Artillery under the Command of the C.R.A. 1st Australian Division.
- (b) The action of this Artillery will be as laid down in 1st Australian Divisional Artillery Instructions Series 5. Numbers 4 to 10 inclusive.-

3. ACKNOWLEDGE.
=====

[Signature]
Major.
A/ Brigade Major. 1st Aust. Div. Arty.



SECRET

Copy No.....

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

1st AUSTRALIAN
DIV. ARTILLERY
HEADQUARTERS.

No. S/128/130

Date.....

1. Reference 1st Australian Divisional Artillery
Operation Order No.70, para 1 (d) and Instructions
No.4 - Series 5 - para (a) 1.

Zero hour will be 5.20 a.m. 18th September 1918.

2. ACKNOWLEDGE.
17/9/1918.

[Signature]
Major
A/Brigade Major. 1st Aust.Div.Arty.

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 5.....

OPERATION ORDER NO. 71.

28th September 1918.

1. The 30th American Division in conjunction with the 46th Division on the right and the 27th American Division on the Left is to attack the enemy on the 29th September. Zero hour is being communicated to C.Os. Groups, C.O., 6th Army brigade and the D.T.M.O. by word of mouth by an Officer from D.A.H.Q.
2. The Field Artillery under the command of C.R.A. 1st. Aust. Div. will support this attack as detailed in 1st. Aust. Div. Arty. Instructions, Series 6. Numbers 6 - 18.
3. ACKNOWLEDGE.

Alce. W. Forbes
Major.
brigade major. 1st. Aust. Div. Arty.

Distribution.

N O R M A L .

APPENDIX.

10

75
SECRET.

APPENDIX.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 7

ORDER NO. 131.

reference Sheet 620 1/40,000.

1. (a) 16th Bde. R.H.A. is moving on 11th September to 9th Corps Area under orders of 9th Corps.
(b) 5th Aust. F.A. Brigade, 2nd Aust. Div. Arty., is moving on 11th September to area vacated by 16th Bde. R.H.A. and becomes Divisional Reserve under orders of C.R.A. 3rd., Aust. Div., move to be completed by 4 p.m. 11th inst.,
(c) 4th Aust. F.A. Bde., and 2nd Aust. D.A.C. (less S.A.A. Section) are moving on 12th September to area COURCELLE-BUIRE-TINCOURT - moves to be completed by 4 p.m.
(d) Brigades and D.A.C. of 2nd Aust. Div. Arty., will come under orders of C.R.A. 1st Aust. Div., at 10 a.m. on 12th September.
2. On the passing of Command from C.R.A. 3rd Aust. Div., to C.R.A. 1st Aust. Div., at 10 a.m. on 12th inst., the Artillery in Sector will be disposed as follows :-
In Line.
3rd Aust. Army F.A. Bde.
14th Army Bde. R.F.A.
51st Bde. R.G.A.
In Support.
5th Aust. F.A. Bde.
In Reserve.
1st Aust. F.A. Bde.
2nd Aust. F.A. Bde.

To be in area by 4 p.m. 12th September.
4th Aust. F.A. Bde.
3. On the 12th inst., the following reliefs will take place.
4. (a) The 2nd Aust. F.A. Bde. will relieve the 14th Army Bde. R.F.A. in the line.
(b) On relief the 14th Army Bde. R.F.A. will withdraw to wagon lines and will march on 13th inst., to Corps area under orders to be issued by 1X Corps.
5. (a) 1st Aust. F.A. Bde., will relieve the 3rd Aust., Army F.A. Bde. in the line.
(b) On relief the 3rd Aust. Army F.A. Bde., will withdraw to wagon lines and will relieve 5th Aust. F.A. Bde., as support brigade.
6. 4th Aust. F.A. Bde., and 5th Aust., F.A. Bde., will remain at wagon lines in reserve.

P.T.O.

12.

75

APPENDIX

- 2 -

7. (a) Reliefs will be carried out between 4 p.m. 12th inst., and as soon after dark on 12th inst., as possible.
- (b) Batteries will relieve by sections under arrangements to be made between Brigade Commanders' concerned.
- (c) Command of Brigades will pass on completion of relief, and this office will be notified immediately by wire.
8. Artillery Brigades when not in the line will demand any Infantry escorts they may require from the G.O.C. Support Brigade.

ACKNOWLEDGE.

[Signature]

for

[Signature]

major.
BRIGADE MAJOR. 1st Aust. Div. Arty.

DISTRIBUTION.

1st Aust. F.A.Bde.	1
2nd Aust. F.A.Bde.	2
1st Aust. D.A.C.	3
D.T.M.O. 1st Aust. Div.	4
3rd Aust. Army Bde. F.A.	5
14th Army Bde. R.F.A.	6
5th Aust. F.A.Bde.	7
51st Bde. A.G.A.	8
2nd Aust. D.A.	9
3rd Aust. D.A.	10
4th Aust. D.A.	11
5th Aust. D.A.	12
4th Aust. F.A.Bde.	13
2nd Aust. D.A.C.	14
1st Aust. Div.	15
R.A. Aust. Corps.	16
R.A. Aust. Corps.	17
No. 3 Squadron R.F.C.	18
No. 1 Coy. 1st Aust. D.Train.	19
S.O.O. 1st Aust. Div.	20
P.A.D.O.S. 1st Aust. Div.	21
C.A.A. 1st Aust. Div.	22
Staff Captain.	23
Reconn. Officer.	24
Signal Officer.	25
File.	26
War Diary.	27/29
Spare.	30/32

- o -

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 7

ADDENDUM TO ORDER NO. 131.

11/9/1918.

1. 1st Divisional Artillery, Headquarters, closes at 2.15 p.m. at 3 p.m. 11th inst., and opens at J.16.A.S.O. at 3 p.m. 12th inst.,

for *W. H. Little* Major.
Brigade Major, 1st Aust. Div. Arty.

Distribution. To all recipients of Order ^{No} 131.

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 5

ORDER NO. 132.

12-9-1918

1. Paragraphs 2 to 7 inclusive of 1st Australian Divisional Artillery Order No. 131 are cancelled.
2. On arrival in the BUIRE-TINCOURT area the 1st Australian Divisional Artillery (less Headquarters) will be under orders of C.R.A., 3rd Australian Division.
3. On the passing of command from C.R.A., 3rd Aust., Div., to C.R.A., 1st Aust., Div., at 10 a.m. on 12th inst., the Artillery in the sector will be disposed as follows :-

In the Line.

Right Group (under Lt.Col. GIBBONS D.S.O., 14th Army Bde., R.F.A.)
 14th Army Bde. R.F.A.
 2nd Aust. F.A.Bde.,

Left Group (under Lt.Col. G.I. STEVENSON C.M.G. 3rd Aust., Army Bde. F.A.)
 3rd Aust. Army F.A.Bde.
 1st Aust. F.A.Bde.

In support.

5th Aust. F.A.Bde.,

To be in Area by 4 p.m. 12th inst.,
 4th Aust. F.A.Bde.,

4. On the 12th inst., the following move will take place.
 - (a) The 2nd Aust., F.A.Bde., will relieve the 14th Army Bde., R.F.A.
 - (b) On relief the 14th Army Bde., R.F.A. will withdraw to wagon lines and will march on 13th inst., to IX Corps Area under orders to be issued by IX Corps.
5. On completion of relief. (para. 5.) the Artillery covering the Divisional Sector will be as follows :-

In the Line.

1st Aust. F.A.Bde.) Under Command of
2nd Aust. F.A.Bde.	
3rd Aust. Army F.A.Bde.	
) Lt.Col. G.I. STEVENSON C.M.G.
) (3rd Aust. Army F.A.Bde.)

In Reserve.

4th Aust. F.A.Bde.
 5th Aust. F.A.Bde.

6. (a) Relief will be carried out between 4 p.m. 12th inst., and as soon after dark on 12th inst., as possible.
- (b) Batteries will relieve by sections under arrangements to be made between Brigade Commanders concerned.
- (c) Command of Brigades will pass on completion of relief and this office will be notified by wire.

7. ACKNOWLEDGE.

K. W. J. W.
 A/c Brigade Major. 1st Aust. Div. Arty. Major.

Distribution.

P.T.O.

APPENDIX.

DISTRIBUTION.

1st Aust. F.A.Bde.	1
2nd Aust. F.A.Bde.	2
3rd Aust. Army F.A.Bde.	3
4th Aust. F.A.Bde.	4
5th Aust. F.A.Bde.	5
51st Bde. R.G.A.	6
1st Aust. D.A.C.	7
2nd Aust. D.A.C.	8
4th Aust. D.A.	9
2nd Aust. D.A.	10
3rd Aust. D.A.	11
D.T.M.O. 1st Aust. Div.	12
1st Aust. Div.	13
R.A. Aust. Corps.	14
H.A. Aust. Corps.	15
No.3 Squadron R.F.C.	16
No.1 Coy., 1st Aust. Div. Train.	17
S.S.O. 1st Aust. Div.	18
D.A.D.O.S. 1st Aust. Div.	19
C.R.A. 1st Aust. Div.	20
Staff Captain.	21
Reconn. Officer.	22
Signal Officer.	23
File.	24
War Diary.	25/27
Spare.	28/30

On the 12th inst., the following were with the 1st Aust. Div.:

(a) The 2nd Aust. F.A.Bde., will relieve the 1st Aust. F.A.Bde.

(b) On the 12th inst., the 1st Aust. F.A.Bde. will withdraw to wagon lines and will march on 12th inst., to IX Corps area under orders to be issued by IX Corps.

On completion of relief (para. 2.), the artillery covering the 1st Aust. Div. will be as follows:

1st Aust. F.A.Bde.

2nd Aust. F.A.Bde.

3rd Aust. Army F.A.Bde.

4th Aust. F.A.Bde.

5th Aust. F.A.Bde.

51st Bde. R.G.A.

1st Aust. D.A.C.

2nd Aust. D.A.C.

4th Aust. D.A.

2nd Aust. D.A.

3rd Aust. D.A.

D.T.M.O. 1st Aust. Div.

1st Aust. Div.

R.A. Aust. Corps.

H.A. Aust. Corps.

No.3 Squadron R.F.C.

No.1 Coy., 1st Aust. Div. Train.

S.S.O. 1st Aust. Div.

D.A.D.O.S. 1st Aust. Div.

C.R.A. 1st Aust. Div.

Staff Captain.

Reconn. Officer.

Signal Officer.

File.

War Diary.

Spare.

(a) Relief will be carried out between 4 p.m. 12th inst., and as soon after dark on 12th inst., as possible.

(b) Artillery will relieve by sections under arrangements to be made between Brigade Commanders concerned.

(c) Command of artillery will pass on completion of relief. The 1st Aust. Div. will be notified by wire.

1st Aust. Div.

2nd Aust. Div.

3rd Aust. Div.

4th Aust. Div.

5th Aust. Div.

51st Bde. R.G.A.

1st Aust. D.A.C.

2nd Aust. D.A.C.

4th Aust. D.A.

2nd Aust. D.A.

3rd Aust. D.A.

D.T.M.O. 1st Aust. Div.

1st Aust. Div.

R.A. Aust. Corps.

H.A. Aust. Corps.

No.3 Squadron R.F.C.

No.1 Coy., 1st Aust. Div. Train.

S.S.O. 1st Aust. Div.

D.A.D.O.S. 1st Aust. Div.

C.R.A. 1st Aust. Div.

Staff Captain.

Reconn. Officer.

Signal Officer.

File.

War Diary.

Spare.

12/9/1918

75 ORDER NO. 133.

1. The 1st Aust. F.A.Bde. will move from present positions and will occupy on 13th inst. those vacated by 2nd Aust. F.A. Bde. to-day (12th inst.)

The 4th Aust. F.A.Bde. will move from Wagon lines and will occupy on 13th inst. the positions at present occupied by 1st Aust. F.A.Bde. which they will move from on 13th inst.,

3. The 5th Aust. F.A.Bde. on 13th inst. will reconnoitre and move forward to positions approximately 3,000 yards from present front line.
4. Brigade Commanders concerned with their Battery Commanders will report to Lt.Col. G.I. STEVENSON C.M.G. at headquarters 3rd Aust. (Army) F.A.Bde. at A.27.A.4.8. at 10 a.m. on 13th inst.
5. Moves will be carried out and positions will be occupied after dark on 13th inst. unless the weather is considered favorable by this office, for their occupation in daylight, in which case Brigades will be so notified.
6. Batteries must be capable of covering any portion of the Divisional front.
7. On completion of moves detailed above the Field Artillery covering the Divisional Sector will be grouped as follows :-

Right Group - covering Right Battalion - under Command of

Lt.Col. E. T. DEAN D.S.O.
1st Aust. F.A.Bde.
2nd Aust. F.A.Bde.

Left Group - covering Left Battalion - under command of

Lt.Col. G.I. STEVENSON C.M.G.
3rd Aust. (Army) F.A.Bde.
4th Aust. F.A.Bde.
5th Aust. F.A.Bde.

8. Group Headquarters will be situated sufficiently close to Infantry Brigade Headquarters to enable a close personal liaison to be maintained. Each Group will maintain a liaison Officer and communication with the Battalions they are responsible for covering

9. S.O.S.
Owing to the impossibility of adequately covering the Divisional front with a continuous barrage with the Artillery at the disposal of the Division, portions of the front only will be barraged.

The portions selected to be barraged will be chosen in consultation with the G.D.C. Infantry Brigade and will be such that 18 pdrs. are responsible for not more than 25 yards per gun and 4.5" Hows. for 40 yards per How.

10. The 1st Aust. F.A.Bde. and 4th Aust. F.A.Bde. will on 14th inst. select offensive positions at approximately 2500 yards from front line.

Lines of fire will be laid out on positions selected so that they may be occupied at short notice.

11. ACKNOWLEDGE.

Contributions P.T.O.

A/c Brigade Major. 1st Aust.Div.Arty.

Major.

2 copies sent to Office.

17 APPENDIX.

APPENDIX 13

DISTRIBUTION.

1st Aust. F.A.Bde.	1
2nd Aust. F.A.Bde.	2
3rd Aust. (Army) F.A.Bde.	3
4th Aust. F.A.Bde.	4
5th Aust. F.A.Bde.	5
51st Bde. R.G.A.	6
1st Aust. D.A.C.	7
2nd Aust. D.A.C.	8
4th Aust D.A.	9
6th Aust. D.A.	10
D.I.M.O. 1st Aust. Div.	11
H.A. Aust Corps.	12
H.A. Aust Corps.	13
1st Aust. Div.	14
No.3 Squadron A.F.C.	15
C.R.A.	16
Staff Captain.	17
Reconn. Officer.	18
Signal Officer.	19
Pilo.	20
War Diary.	21/23
Spare.	24/26

Sh

SECRET

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

1st AUSTRALIAN
DIVL ARTILLERY
HEADQUARTERS.

S/128/138

1st Aust. F.A. Brigade.
2nd Aust. F.A. Brigade.
3rd (Army) Bde. A.F.A.
4th Aust. F.A. Brigade.
5th Aust. F.A. Brigade.
7th Aust. F.A. Brigade.
8th Aust. F.A. Brigade.
8th Army Bde. R.F.A.



1. There will be no "Success" light signals used on 1st Australian Divisional Front.
2. The 74th Division, on left, will use the following signals :-

On reaching the Infantry Halt Line (1st objective) each platoon will fire a GREEN Very Light.

On reaching the (2nd Objective) each platoon will fire a RED Very Light.

Special watch will be kept for these success signals and they will be at once reported.

3. ACKNOWLEDGE.

17/9/1918.

Sh
Major.
A/ Brigade Major. 1st Aust. Div.
Arty.

SECRET.**SECRET**

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

S/128/139

21/9/1918

1. "Z" Special Coy, R.E. has been placed at the disposal of 1st Australian Division for projector GAS operations.
2. This Coy. is operating on the front of the 3rd Aust. Inf. Brigade.
Targets will be the Sunken Roads S.W. of BELLICOURT.
Probable date of operation will be on the first favorable night after 22nd/23rd inst, (inclusive).
3. Emplacement of Projectors is taking place during nights 21st/22nd and 22nd/23rd inst.,
4. Following message will be sent ^{to/} notify: time and date of operation.
"Engineers will issue material at(time) on.....date".
5. ACKNOWLEDGE.

K. H. H. H. H. Major.
A/Brigade Major. 1st Aust. Div. Arty.

1st Aust. F.A.Bde.
2nd Aust. F.A.Bde.
3rd Army Bde. A.F.A.
4th Aust. F.A.bde.
5th do
7th do
8th do
68th Bde. R.G.A. (Imp)
4th Aust. D.A.
74th Aust. D.A.
Ntc.,

4 copies

5th L.A.D. O.O. No. 12

[Signature]
FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

5th L.A.D.
.....

1st AUSTRALIAN DIV. ARTILLERY HEADQUARTERS.	
21/112.	
No.	
Date	27 9 18

SMOKE SHELL.

In each 18-pdr. battery there will be maintained on wheels after zero hour 75 rounds of A Smoke shell.
4.5" Hows. will maintain 50 rounds^{BS} in the same manner.

Within batteries this will be carried by one Section only ~~and will not be used without reference to this Office.~~ This special Shell is being carried for use in the event of a rapid advance in exploitation of a success and will therefore not be fired in the barrage laid down in 1st Aust Div. Arty Instructions no. 8 Series. 6.

This ammunition will be available on 28th inst after 12 noon.

[Signature]
Lieut.
A/Staff Captain 1st Aust Div Art.

APPENDIX

20

75
SECRET.



Appendix 198 21

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 5

INSTRUCTION NO. 3
Series 5.

14/9/1918

1. (a) The 2nd Aust. Inf. Bde. is relieving the 1st Aust. Inf. Brigade in the line on the night 14th/15th. September.

(b) Command will pass on completion of relief.

2. (a) On the night 14th/15th September the forward Divisional Northern and Southern boundaries will be adjusted to run as follows :-

NORTHERN BOUNDARY.

East and West grid line between Squares L 1 and L 7, as far East as L.3.C.0.0 - thence to F.29.C.8.0 then East and West grid line between square F.29 and L 5.

SOUTHERN BOUNDARY.

Line drawn from K.36.D.0.0 to L.23.C.0.8 - thence to G.20.A.0.5.

(b) Adjustment of Southern Boundary is being effected by direct arrangement between G.O.C. 1st Inf. Brigade and G.O.C. 1st Inf. Brigade of 4th Aust. Div.

3. The above alteration in Divisional Boundaries, so far as the Field Artillery covering the Divisional Sector is concerned, will come into effect from 12 midnight 14th/15th inst.,

4. ACKNOWLEDGE.

[Signature]
Major.
Brigade Major. 1st Aust. Div. Arty.

DISTRIBUTION

1st Aust. F.A. Bde.	1
2nd Aust. F.A. Bde.	2
3rd Aust. (A) F.A. Bde.	3
4th Aust. F.A. Bde.	4
5th Aust. F.A. Bde.	5
51st Bde. R.G.A.	6
4th Aust. D.A.	7
74th D.A. (Imp)	8
H.A. Aust. Corps.	9
H.A. Aust. Corps.	10
D.T.M.O. 1st Aust. Div.	11
1st Aust. Div.	12
C.R.A. 1st. Aust. Div.	13
Staff Captain.	14
Reconn. Officer.	15
Signal Officer.	16
No. 3 Squadron A.F.C.	17
File.	18
War Diary.	19/21
Spare.	22/24



SECRET

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.....

INSTRUCTIONS NO.4
SERIES 5.

14/9/1918.

1. INFORMATION.

- i. The 4th Army in conjunction with the 1st French Army on the right and the Third Army on the left is to attack the enemy's defensive position in front of the HINDENBURG LINE
- ii. The Aust. Corps. is to attack in the Centre of the 4th Army front, the IX Corps is attacking on the right, the III Corps on the left.

Date and Zero hour will be notified later.

2. INTENTION.

- i. 1st. Aust. Division will attack on the left of the Aust. Corps. 4
- ii. The 4th Aust. Div. will be on the right of the 1st Aust. Div. The 74th Division will be on the left of the 1st Aust. Div.
- iii. Objectives and boundaries are shown on attached map. A back inter-brigade boundary has been drawn defining Brigade areas for approach and assembly.

3. DETAIL OF TROOPS.

- i. The 3rd Aust. Inf. Brigade will attack on the right, the 1st Aust. Inf. Bde. will attack on the left.
- ii. One half-section (2 Tanks) is allotted to each Brigade.
- iii. One troop of 13th Light Horse Regt. is allotted to each the 1st. and 3rd. Aust. Inf. Bdes. These troops will report to Brigades before noon on 17th inst.,
- iv. 3rd Aust. M.G. Battalion has been placed at the disposal of G.O.C. 1st Aust. Division.

4. ARTILLERY.

(a) 8 Field Artillery Brigades will be available to cover the Divisional front.

- (b) The Artillery will be grouped as follows :- Right Group covering Right Inf. Brigade (under command of Lt. Col. E.T. DEAN D.S.O. Headquarters 1st Aust. F.A. Bde - K.26.A.40.85. 4 Brigades.
- Left Group - covering Left Infantry Bde. (under command of Lt. Col. G.I. STEVENSON G.M.G., Headquarters - 3rd Aust. Army F.A. Bde - K.27.A.4.8.) 4 Brigades.

(c) The whole of the Artillery of the Corps will come under the command of the G.O.C., R.A., Aust. Corps for the operation.

(d) For exploitation beyond the Red Line, a proportion of the Field Artillery will come under the command of the G.O.C. 1st. Aust. Div., immediately the second objective is captured.

(e) S.O.S. will cease to be operative at zero minus 15 minutes.

5. METHOD OF ATTACK.

- (a) Each Brigade will attack on a frontage of two battalions.
- (b) The Infantry will form up on a taped line prior to zero. The barrage will open at zero hour and the tanks and infantry will press close up to the barrage. The barrage will continue until the halt line, shown in brown on the attached map, is reached, where there will be a halt for a period to be notified later.

P.T.O.

23

APPENDIX.

- 2 -

Method of Attack.

From the halt line the advance will continue under cover of the artillery barrage until the red line is reached. A protective barrage will continue to cover consolidation of the red line for a period of 15 minutes, when it will cease. Infantry parties supported by specially detailed Field Artillery units will endeavour to take advantage of the enemy's demoralisation to exploit the success with a view to establishing themselves on the blue line.

TANKS.

(a) Tanks will be used for employment against selected tactical points. They will not be employed in advance of the Second objective. The chief tactical point on the 3rd Brigade front is the high ground and spurs about FERVAQUE Fm. on the 1st Brigade front, COLOGNE FARM. Instructions for forming up of Tanks will be issued later. Dummy Tanks will be employed. The C.R.E. has the construction of the latter already in hand.

7. Infantry forming up Line. This line will be as shown on the attached map.

8. (a) In anticipation of the foregoing group Commanders will reconnoitre and select positions for the Artillery detailed in para. 4 (b), approximately 2500 yards from the Infantry forming up line. It may be possible to find positions for a few batteries even closer than above limit.

(b) Should it be necessary in some cases to select positions which afford little or no cover. Batteries occupying them will remain silent until zero hour or will not occupy them until the night prior to the day on which the operation takes place.

(c) (a) Steps will be taken at once to get ammunition up to position to be occupied for the operation to the establishment of :-

18 pdrs. 400 rds. per gun 50% A. 50% AX
4.5" Hows. 400 " " how.

It is probable that this establishment will be increased directly.

(b) 1st and 2nd Aust. D.A.C's will deliver ammunition to positions selected for the Reinforcing Brigades under supervision and orders of Group Commanders. On arrival of the Reinforcing Brigades they will take over the work.

For above purpose 1st Aust. D.A.C. will work under Right Group and 2nd Aust. D.A.C. under Left Group Commander.

Further instructions will be issued later.

9.

10.

ACKNOWLEDGE.

[Signature]
A/c Brigade Major. 1st Aust. Div. Major Artillery.

*O.C. 13, 14, 15, 105 Bty. This will commence directly to dump
required amount of ammo at pits.
A.R.P. is situated in valley in T17d.
A/c*

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.INSTRUCTIONS NO. 4SERIES B.1. INFORMATION.

- i. The 4th. Army in conjunction with the 1st. French Army on the right and the Third Army on the left is to attack the enemy's defensive position in front of the HINDENBURG LINE.
- ii. The Aust. Corps is to attack in the centre of the Fourth Army Front, the IX Corps is attacking on the right, the III Corps on the left.

Date and zero hour will be notified later.

2. INTENTION.

- i. 1st. Aust. Division will attack on the left of the Aust. Corps.
- ii. The 4th. Aust. Div. will be on the right of the 1st. Aust. Div.
The 74th. Division will be on the left of the 1st. Aust. Div.
- iii. Objectives and boundaries are shewn on the attached map. A Back Inter-brigade Boundary has been drawn defining Brigade Areas for approach and assembly.

3. ARTILLERY.

(a) 8 Field Artillery Brigades will be available to cover the Divisional Front.

(b) The artillery will be grouped as follows :- Right Group
Covering Right Inf. Brigade (under command of Lt. Col. E.T. DEAN, D.S.O.
Headquarters 1st. Aust. F.A. Brigade - K.26.a.40.85.)
4 Brigades.

Left Group. - Covering Left Inf. Brigade (under Command of
Lt. Col. G.I. STEVENSON, C.M.G., Headquarters - 3rd. Aust. Army Bde. -
K.27.a.4.8.)
4 Brigades.

(c) The whole of the artillery of the Corps will come under the Command of the G.O.C., R.A., Aust. Corps for the operation.

(d) For exploitation beyond the Red Line, a proportion of the Field Artillery will come under the command of the G.O.C., 1st. Aust. Div., immediately the second objective is captured.

(e) S.O.S. will cease to be operative at zero minus 15 minutes.

8. (a) In anticipation of the foregoing Group Commanders will reconnoitre and select positions for the artillery detailed in para. 34(b), approximately 2,500 yards from the Infantry forming up line. It may be possible to find positions for a few batteries even closer than above limit.

(b) Should it be necessary in some cases to select positions which afford little or no cover, Batteries occupying them will remain silent until zero hour or will not occupy them until the night prior to the day on which the operation takes place.

(c) (a) Steps will be taken at once to get ammunition up to position to be occupied for the operation to the establishment of :-
18-pdrs. 400 rds. per gun - 50% A 50% AX.
4.5" Hows. 400 " " How. -

It is probable that this establishment will be increased directly.

(b) 1st. and 2nd. Aust. D.A.C.s will deliver ammunition to positions selected for the reinforcing Brigades under supervision and orders of Group Commanders.

On arrival of the reinforcing Brigades they will take over the work.

-2-

For above purpose 1st. Aust. D.A.C. will work under Right Group and 2nd. Aust. D.A.C. under Left Group Commander.

6. Further instructions will be issued later.

FIFTH AUST. FIELD ARTILLERY BRIGADE.

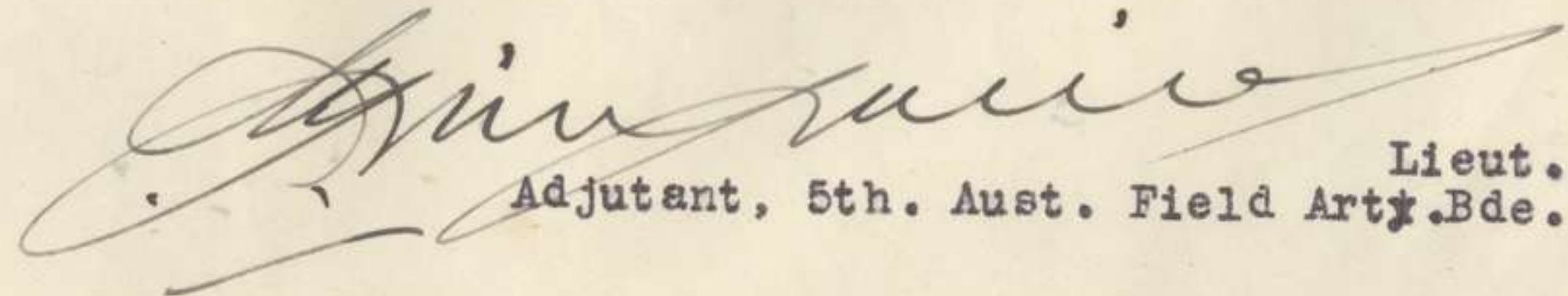
13th. Battery.
14th. "
15th. "
105th. "

4/110.

Headquarters,
15th. September 1918.

Batteries will commence directly to dump required amount of ammunition at Pits.

A.R.R. is situated in Valley in J.17.d.


Lieut.
Adjutant, 5th. Aust. Field Art~~y~~.Bde.

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.....

INSTRUCTIONS NO.5.
Series 5.

15/9/1918.

1. In continuation of 1st Aust. Div. Instructions No.4 - Series 5 para 4. :-
2. The following is the additional Field Artillery which has been allotted to the 1st Aust. Div. and will come under command of the C.R.A. 1st Aust. Div. at times and on dates as under.

3rd Aust. Div. Art. (less Hdqrs). 10 am 15/9/18
5th Army Bde. R.F.A. - on arrival in area 16/9/18
3. (a) The Field Artillery will be grouped as under :-

Right Group. Covering Right Inf. Bde.
Right Group-Commander Lt.Col. E.T. DEAN D.S.O.
(1st Aust. F.A. Bde).
1st Aust. F.A. Bde.
2nd Aust. F.A. Bde.

Right sub-group-Commander. Lt.Col. G.H.M. KING C.M.G.
D.S.O. (7th Aust. F.A. Bde.)
7th Aust. F.A. Bde.
8th Aust. F.A. Bde.

Left Group. - covering Left Inf. Bde.
Left Group-Commander Lt.Col. G.I. STEVENSON C.M.G.
(3rd Aust. (A) F.A. Bde).
3rd Aust. (A) F.A. Bde.
5th Army Bde. R.F.A. (Imp).

Left sub-group Commander Lt.Col. H.W. RIGGALL D.S.O.
(5th Aust. F.A. Bde).
4th Aust. F.A. Bde.
5th Aust. F.A. Bde.
- (b) The above grouping will come into operation on arrival of the 7th and 8th Aust. F.A. Bdes and 5th Army Bde. R.F.A. in action
- (c) i Reinforcing Brigades must be in action by 12 midnight on night 17th/18th inst.
 ii Reinforcing Brigades will not fire until zero hour unless under orders from this H.Qtrs.
 iii Brigades at present in action will be in forward position, where necessary, by 12 midnight on night 17th/18th inst.,
- (d) In selecting positions it must be borne in mind that all batteries must be able to cover the Brown Line and that a percentage must be able to cover the Red Line from positions selected.
 Batteries that cannot cover the Red Line will have to move forward during the halt on the Brown Line, and be in action in positions from which they can cover Red Line before the Barrage is timed to move on from Brown Line.
 The period of halt on Brown Line is not yet known.
 Reconnaissance for forward positions to which Batteries will move must be carried out, and if possible they should be resected and lines of fire laid out.

P.T.O.

27 10/27/1918 APPENDIX.

- 3 -

4. AMMUNITION.

(a) The following ammunition will be held by Field Artillery on Zero day.

	At Guns.	Echelon.	A.R.P.	Corps Reserve.	Total.	
18 Pdrs.	600	276	100	175	1151	Rds per gun
4.5" How.	400	222	100	90	812	" "

(b) This will be held in the following proportion :-

18 pdr. At guns. 10% AS. if available (if not available to be replaced by AX)

50% A.
40% AX.

Echelon
A.R.P. &
Corps
Reserve.) 60% A.
40% AX.

4.5" Hows. At Guns. 10% BS.
90% BX.

Echelon
A.R.P. &
Corps
Reserve.) BX.

5. ACKNOWLEDGE.

Major.
Brigade Major 1st Aust Div Art.

DISTRIBUTION.

1st Aust. F.A. Bde.	1
2nd Aust. F.A. Bde.	2
3rd Aust. (A) F.A. Bde.	3
4th Aust. F.A. Bde.	4
5th Aust. F.A. Bde.	5
7th Aust. F.A. Bde.	6
8th Aust. F.A. Bde.	7
51st Brigado. R.F.A. (Imp).	8
5th Army Bde. R.F.A.	9
1st Aust. Inf. Bde.	10
2nd Aust. Inf. Bde.	11
3rd Aust. Inf. Bde.	12
1st Aust. D.A.C.	13
2nd Aust. D.A.C.	14
3rd Aust. D.A.C.	15
D.T.M.O. 1st Aust. Div.	16
1st Aust. Div.	17
3rd Aust. D.A.	18
4th Aust. Div. Arty.	19
74th Div. Arty. (Imp).	20
R.A. Aust. Corps.	21
H.A. Aust. Corps.	22
C.A.A. 1st Aust. Div.	23
Staff Captain.	24
Reconn. Officer.	25
Signal Officer.	26
File.	27
War Diary.	28/30
	31/33

SECRET

[Signature]
FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No...*5*...

16/9/1918 *[Signature]*

Amendment No.1 - to 1st Australian Divisional Artillery Instructions
No.5 - Series 5.

1. In para 4 (b) 2nd line to be altered to read -
"18 pdr. At guns 10% AS, if available (If not
available to be replaced by AX.) ✓

2. ACKNOWLEDGE. ✓ *[Signature]*

[Signature] Major.
A/Brigade Major. 1st Aust.Div.Art.

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Appendix 1013

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FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.....

INSTRUCTION NO. 6.-
SERIES 5.

16/9/1918.

1. GENERAL INSTRUCTIONS.

It is necessary that equal care should be exercised in regard to the concealment of our intentions as has been emphasised prior to other deliberate operations.

New units arriving in the Corps area are to be especially instructed in this regard.

Owing to the distance of the Final Objective from the Field Artillery Start Line, it will be necessary to emplace Brigades very close to the Infantry Start Line, therefore the following points are again brought to notice :-

- (a) Movement by day in these positions is to be prohibited.
- (b) Careful camouflage of guns when emplaced, and ammunition when dumped, is to be arranged.
- (c) No firing is to take place prior to Zero day from these forward positions.
- (d) Resection of Battery positions is to be carried out.
- (e) Care is to be exercised in determining likely alterations in the angle of sight throughout the barrage.
- (f) Classification of ammunition will be arranged.
- (g) Expenditure of ammunition is not to exceed the allotment in force at the moment on the Corps front.
- (h) Sights are to be tested just prior to Zero day.
- (i) During the operation all sights are to be checked by clinometer.
- (j) Attention is to be paid to atmospheric conditions.

2. MOVEMENT BY DAY.

No abnormal movement is to take place on roads during daylight.

3. WAGON LINES.

Wagon Lines are to be selected with a view to concealment from the air.

4. REHEARSAL OF BARRAGE.

The barrage procedure is to be rehearsed and checked by each unit at least once prior to the operation taking place, without firing.

5. CORRECTOR LENGTH.

Corrector lengths are to be used which will give 50% of time shell on graze.

6. ACKNOWLEDGE.

[Signature] Major.
A/ brigade major, 1st Aust. Div. Arty.

1st Aust. Div. Art.

DISTRIBUTION.

To all recipients of Instruction No. 5 - Series 3
plus 68th Bde A.G.A., minus 51st Bde A.G.A.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

INSTRUCTION. No. 7.
SERIES 5.

1. In continuation of 1st Aust Div Arty. Instructions Nos. 4.5. and 6 Series 5.

2. (i). Attached is Barrage map for the forthcoming operation.
 (ii). Divisional and Inter-brigade boundaries and Infantry forming up line are shown on map.
 (iii). Inter-Group boundary will be the same as Boundary between Infantry Brigades as shown on map.
 (iv). (a). The 18-pdr. barrage opens at Zero on Artillery start line which is 200 yards East of Infantry "forming up line".

From Zero to Zero plus 3 barrage remains on Artillery Start, then advances in lifts of 100 yards at times as shown on Barrage map.

As the Barrage arrives on the "Protective Barrage Line" to the "Infantry Halt Line" it will halt till Zero plus 190 minutes.

This "Protective Barrage Line" is 300 yards East of the "Infantry Halt Line".

At Zero plus 190 minutes the barrage will again continue to advance in 100 yard lifts at times laid down on Barrage map until it reaches the "Protective Barrage Line" to the 2nd Objective which Line is 400 yards East of 2nd Objective Line.

Fire will cease 15 minutes after arrival on the "Protective Barrage Line" to the 2nd Objective.

(b). The 4.5 How. barrage will be the same as for 18-pdr except that it will commence and remain 200 yards to the East of 18-pdr barrage.

(c). In the case of the Left Group the fire of all guns and Hows. will be evenly distributed across the front throughout the barrage.

(d). In the case of the Right Group the fire of 18-Pdrs. will be distributed evenly across the front throughout the barrage.

Howitzers will be used to thicken the barrage in lanes shaded "Blue" in attached tracing B. as required by G.O.C., 3rd Infantry Brigade.

(e). Rates of Fire.

18-pdr.	Throughout Creeping Barrage.	Rapid.
*	When on "Protective Barrages.	Slow.

4.5" How.	Throughout Creeping Barrage.	Rapid.
*	When on Protective Barrages.	Normal.

* For 3 minutes (Zero plus 187 to plus 190) prior to lifting from the Protective Barrage Line to the Infantry Halt Line fire will be increased to "RAPID". Whilst on the Protective Barrage to the Infantry Halt Line 50% of the guns will search East as far as possible.

(f). Ammunition.

18-pdr.	Throughout Barrage	- *10% A.S. if available.
		40% A.X.
		50% A.

4.5" How.	*10% BS. if available.
	90% BX.

* If Smoke Shell is not available it will be replaced by H.E.

P.T.O.

APPENDIX.

- (g). A corrector will be ordered that will give 50% grazos.
- (h). Those Batteries which will be firing beyond time shrapnel range must be warned to increase the percentage of shrapnel used at shorter ranges so that sufficient H.E. may be available for use at longer ranges.
- (i). As far as compatible with Ammunition available, all H.E. used at ranges below 4000 yards will be fused 101 delay fuze - above 4000 yards will be fused 101 non-delay fuze and 100 type fuze.
3. (a). As soon as the attack is launched, Brigade Commanders with 1 Subaltern per Battery will go forward and reconnoitre positions in vicinity of the "Artillery Start Line"
- (b). Group Commanders will indicate to Brigade Commanders the areas in which they are to find positions.
- (c). As soon as positions are selected Subalterns will resect them and lay out lines of fire and will send back a mounted orderly to battery wagon-line to guide up ammunition wagons at once, so that ammunition may be available on arrival of guns.
4. (a). On reaching the "Protective Barrage Line" to the "Infantry Halt Line" not less than 6 Batteries per Group which are capable of firing the Protective Barrage for the 2nd Objective, will remain in action. The remainder will at once move forward to forward positions selected in accordance with para. 3. and will be in action in time to continue the barrage when it advances.
- (b). Batteries which are in action before the Barrage again moves forward will open fire on Protective Barrage.
- (c). When fire on the Protective Barrage to the 2nd Objective ceases, the batteries which remained in action during the Halt on Protective Barrage to Infantry Halt Line will move forward also.
- (d). All battery wagon-lines will move to forward positions near their batteries and be in position by Zero plus 30 minutes.
5. (a). 1 Company 1st Aust. Pioneer Battalion has been detailed by C.A.E. to assist in moving Artillery forward.
Half the Company will assist Right Group Artillery - the other half the Left Group Artillery.
- (b). Artillery bridges have been ordered and will be placed in convenient forward positions which are known to the Pioneers.
6. Liaison.
- (a). Groups will provide a Liaison Officer with each attacking Battalion.
- (b). These Officers will continue on with the Battalions moving forward to capture the Second Objective and will take care to join up with them as they pass through the Battalions which captured the First Objective (the Infantry Halt Line).
7. F.O.O's.
- (a). Each Brigade will detail 1 F.O.O. of whom 1 may be Group F.O.O.
- (b). Group F.O.O's will take forward a Continuous Wave Wireless Set and personnel to man it for use in addition to all other means of communication, which must be exploited to the utmost.
- (c). Message rockets will be issued to each Group.
8. (a). C.W. Wireless Sets and personnel will be allotted as follows-
- 1. Set per each Group F.O.O.
 - 1. Set per each Sub-Group F.O.O.
 - 1. Set per Group Headquarters.
 - 1. Set per Sub-Group Headquarters.
 - 1. Set per D.A.H.Q.

P.T.O.

8. (b). i. C.W. Set and Personnel on charge to 8th A.F.A. Brigade will be at disposal of Night Sub-Group Commander.
 ii. 2 C.W. sets and Personnel on charge to 4th A.F.A. brigade will be at disposal of Left Group Commander.
 (c). Instructions regarding Wave Lengths are being issued by Div. Arty Signal Officer to Brigade Signal Officers.

9. Report Centres.

- (a) Right Group Headquarters - L.26.C.4.8.
 Left Group Headquarters - K.12.D.3.0.
 Div. Arty. Report Centre - K.30.A.2.5.
 1st Aust Div. Report Centre - K.30.A.0.1.
 Divisional Visual Station. - K.30.A.2.7.
 (b) A cable dump and accumulator Charging set will be established at 1st Aust Div Report Centre.

10. Zone Calls.

Group Commanders will detail 1 Battery (4.5" How or 18-pdr) per Group to answer "N.F." "G.F." and "L.L." Calls during the period from Zero to Zero plus 273 minutes.

These Calls will be replied to by three minutes "INTENSE" fire from batteries detailed. Batteries detailed should be super-imposed so that when employed on above duty there will be no gap in the barrage.

AEROPLANES.

11. (a). Counter-attack machines will be constantly in the air from Zero onwards with the object of observing hostile concentration or abnormal movement.
 (b). In the event of an enemy concentration indicating a counter-attack, aeroplane will signal this information to Artillery by wireless.

In the case of a counter-attack actually developing, a white parachute flare will be fired by the aeroplane in the direction of the troops moving for the impending counter-attack, for the information of the Infantry.

12. S.O.S. Signal on the Army front is a rifle grenade signal ~~RED~~ over ~~RED~~ over RED.

13. Telephone precautions. As the HINDENBURG LINE is organised for defence, it is most probable that listening sets are installed. Every precaution therefore must be taken.

14. Exploitation. Orders will be issued later on lines which have already been communicated verbally to Group Commanders by C.R.A.

15. SYNCHRONISATION OF WATCHES. Watches will be synchronised by an Officer who will leave D.A.H.Q. for Right and Left Group H.Q. at approximately 2 p.m. and 7 p.m. on the day prior to operation. Time will not be synchronised over telephone.

16. ACKNOWLEDGE.

[Signature]
 Major.
 A/Brigade Major. 1st Aust Div. Art.

DISTRIBUTION.

P.T.O.

DISTRIBUTION.

1st Aust. F.A.Bde.	1/5
2nd Aust. F.A.Bde.	6/10
3rd Aust. (Army) Bde. F.A.	11/15
4th Aust. F.A.Bde.	16/20
5th Aust. F.A.Bde.	21/25
7th Aust. F.A.Bde.	26/30
8th Aust. F.A.Bde.	31/35
9th Aust. F.A.Bde.	36/40
10th Aust. F.A.Bde.	41/45
11th Aust. F.A.Bde.	46
12th Aust. F.A.Bde.	47
13th Aust. F.A.Bde.	48
14th Aust. F.A.Bde.	49/51
15th Aust. F.A.Bde.	52
16th Aust. F.A.Bde.	53
17th Aust. F.A.Bde.	54
18th Aust. F.A.Bde.	56
19th Aust. F.A.Bde.	57
20th Aust. F.A.Bde.	58
21st Aust. F.A.Bde.	59
22nd Aust. F.A.Bde.	60
23rd Aust. F.A.Bde.	61
24th Aust. F.A.Bde.	62
25th Aust. F.A.Bde.	63
26th Aust. F.A.Bde.	64
27th Aust. F.A.Bde.	65/67
28th Aust. F.A.Bde.	67/69
29th Aust. F.A.Bde.	
30th Aust. F.A.Bde.	
31st Aust. F.A.Bde.	
32nd Aust. F.A.Bde.	
33rd Aust. F.A.Bde.	
34th Aust. F.A.Bde.	
35th Aust. F.A.Bde.	
36th Aust. F.A.Bde.	
37th Aust. F.A.Bde.	
38th Aust. F.A.Bde.	
39th Aust. F.A.Bde.	
40th Aust. F.A.Bde.	
41st Aust. F.A.Bde.	
42nd Aust. F.A.Bde.	
43rd Aust. F.A.Bde.	
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50th Aust. F.A.Bde.	
51st Aust. F.A.Bde.	
52nd Aust. F.A.Bde.	
53rd Aust. F.A.Bde.	
54th Aust. F.A.Bde.	
55th Aust. F.A.Bde.	
56th Aust. F.A.Bde.	
57th Aust. F.A.Bde.	
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85th Aust. F.A.Bde.	
86th Aust. F.A.Bde.	
87th Aust. F.A.Bde.	
88th Aust. F.A.Bde.	
89th Aust. F.A.Bde.	
90th Aust. F.A.Bde.	
91st Aust. F.A.Bde.	
92nd Aust. F.A.Bde.	
93rd Aust. F.A.Bde.	
94th Aust. F.A.Bde.	
95th Aust. F.A.Bde.	
96th Aust. F.A.Bde.	
97th Aust. F.A.Bde.	
98th Aust. F.A.Bde.	
99th Aust. F.A.Bde.	
100th Aust. F.A.Bde.	

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FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.,....

INSTRUCTION NO. 8.

17/9/1918.

SERIES. 5.

Appendix/P15

1. EXPLOITATION.

- (a) At Zero plus 2 30 minutes - 2 Batteries will be detailed by each Right and Left Group Commanders' to move forward in close support of the attacking Battalions.
- (b) In the Right Group these 2 Batteries will be detailed from the 1st Australian Divisional Artillery.
In the Left Group from the 3rd Aust. Army F.A.Bde.
- (c) 1 Battery will be definitely allotted to each attacking Battalion.
- (d) The remaining 2 Batteries of the Brigades from which the Batteries (in (b)) above are detailed will hold themselves in readiness to go forward should the Group Commander concerned decide that they can be usefully employed.

- 2. (a) From the moment of ceasing fire on the Protective Barrage to the 2nd Objective all Batteries, less Batteries detailed for exploitation, will be prepared to put down a S.O.S. 300 yards East of "Objective line of exploitation" as marked on Barrage map.

In no case will these batteries fire west of this S.O.S. Line, except on the order of an Infantry Brigade Commander, until such time as they are detailed to a S.O.S. covering whatever line has been consolidated.

- 3. After ceasing fire on the Protective Barrage to the 2nd Objective the husbanding of ammunition is of great importance.

- 4. ACKNOWLEDGE.

Major.
A/Brigade Major. 1st Aust.Div.Arty.

DISTRIBUTION.

To all recipients of 1st Australian Divisional
Artillery Instruction No.7 - Series 5.

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FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

APPENDIX.

35



Copy No.

17/9/1918

INSTRUCTIONS No.9

SERIES 5.

1. In continuation of 1st Australian Divisional Artillery Instructions no.7 - Series 5. para 4. (a) :-
 - (a) Should a Battery which is to move forward during the Halt of the barrage in front of the "Infantry Halt Line", not be in action by the time the Barrage moves forward from the Infantry Halt Line, it will join in the Barrage as soon as possible but will open fire plus 200 yards of the Barrage line at the moment.
 - (b) Brigade Commanders' will be responsible that Lane of Fire allotted to them by Group Commander is evenly covered by the guns at their disposal, at all times.
2. In continuation of 1st Australian Divisional Artillery Instructions no.8 - Series 5 - para 2 (b) :-
 - (a) Group Commanders' will place their S.O.S. line in accordance with the wishes of the G.O.C. Infantry Brigade they are covering and will notify this Headquarters of its position.
 - (b) Each battery is responsible for an allotted portion of the Divisional Front, and unless a Battery is in action, all guns will be kept laid on S.O.S. Lines. S.O.S. will always open with H.E.
 - (c) On receipt of the "S.O.S." Signal or call, all Batteries of the Group concerned and the adjacent flank Battery of the neighbouring Group will open fire at once on their "S.O.S." Lines, fire being concentrated as and if required by the Group Commander.
 - (d) A superimposed Unit will answer the call on the Front affected.
 - (e) In the case of an "S.O.S." call on the front of the adjacent Group of either flank Divisional Artillery, the F.A. Brigade of the 1st Australian Divisional Artillery next to the call will at once open on "S.O.S." Lines in the ordinary way.

3. RATES AND DURATION OF FIRE FOR "S.O.S."

NATURE.		ROUNDS PER GUN PER MINUTE.	
18-pdrs. &)		for first 8 minutes.	For following 7 minutes.
4.5" Hows.)		4.	3.

For first 2 minutes 18-pdrs will fire H.E. thereafter 50% "A" 50% "AX".

All fire will cease at the end of 15 minutes unless the "S.O.S." Signal is repeated after the opening of the fire, when the maximum rate of fire will be reverted to and the above procedure repeated.

P.T.O.

- 2 -

- 4 (a) A Battery receiving an "S.O.S." Call will at once inform :-
- (i) Batteries on either flank.
 - (ii) Group Commander's Headquarters.
- (b) Groups will inform :-
- (i) Batteries in the Group.
 - (ii) Groups on either flank.
 - (iii) D.A.H.Q.,

L. J. J. J.

Major.
A/ Brigade Major. 1st Aust. Div. Art.

DISTRIBUTION:- To all recipients of 1st Australian
Divisional Artillery Instructions No. 8 - Series 5.

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APPENDIX.

Copy No.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

INSTRUCTION No. 10.
SERIES 5.

17/9/18.



1. Counter Preparation:- The object of Counter preparation is to break up the enemy's threatened attack before it has time to materialize and this is best effected by searching all likely assembly places, and bringing a maximum amount of fire on to areas over which he has to move.

2. Counter preparation is divided into three phases :-

- (a) Counter Battery work (alluded to as Phase 1.A.)
- (b) Harassing Fire (alluded to as Phase 1.B.)
- (c) Annihilating Fire (alluded to as Phase 2.)

3. COUNTER BATTERY WORK.

It is anticipated that any serious attack by the enemy will be preceded by a heavy bombardment. This is met by vigorous Counter Battery action, gas counteracting, as far as possible, the means of neutralizing the enemy's artillery activity. This is chiefly a Heavy Artillery duty.

4. HARASSING FIRE. (Ordered normally by instructions from these H.Qrs. as follows :- "Effect C.P. Phase 1.B from.....to....." (or "from commencement of enemy bombardment".))

(a) Field Artillery are responsible to a depth of 1000 yards East of "S.O.S" Lines, the responsibility East of that line belonging to the Heavy Artillery.

(b) Group Commanders will select the areas considered to be most dangerous, and sub-allocate them to their Brigades.

(c) The procedure for engaging the areas selected will be as follows :-

During the period allotted for "Phase 1.B, all Batteries of a Brigade will be concentrated in quick succession on each area allotted it, method of fire; 3 rounds gun fire.

Concentrations will be synchronized, the interval between them being arranged and ordered by the Brigade concerned, taking into account the period fire is to be maintained and the rate of fire ordered (see below).

(d) Rates of fire, which will be ordered at the time the Scheme is put into operation, are as follows :-

Rate "A"	60 rounds per gun per hour.
"B"	30 do do
"C"	15 do do

5. ANNIHILATING FIRE. (Ordered normally by instructions from these H.Qrs. as follows :- "Effect C.P. Phase 2 Lanes.....Zone.....at....." (or "from commencement of enemy bombardment."))

(a) In order to facilitate the production of the heaviest possible fire on any portion of the front at short notice, the Divisional Front will be divided into lanes as follows :-

P.T.O.

5. (a) Cont'd.

LANE.	AREA bounded by EAST and WEST Lines through.	Allotted to.
1.	L.22.Central to L.16.D.O.O	RIGHT GROUP.
2.	L.16.D.O.O L.16.Central.	
3.	L.16.Central L.10.D.O.O	
4.	L.10.D.O.O L.10.Central.	
5.	L.10.Central to L.4.D.O.O	LEFT GROUP.
6.	L.4.D.O.O L.4.Central.	
7.	L.4.Central F.28.D.O.O	

(b) Lanes are bounded on the West by a line known as the "START LINE", which will be 100 yards East of "S.O.S." Lines. They are subdivided into Zones each of 500 yards in depth, commencing from the "START LINE", and extending Eastward for four Zones, i.e. covering the front to a depth of 2000 yards from the "START LINE". These Zones will be called "A", "B", "C" and "D" from West to East.

(c) These lanes will come into operation from the time the barrage reaches the Protective Barrage to the 2nd Objective and will continue in operation until further orders.

(d) Annihilating fire will take the form of a creeping barrage over any or all of the lanes at the rate of 100 yards in two minutes in the Zone ordered.

(e) (1) The procedure for effecting Phase 2 will be as follows :-

At Zero hour - Brigades will open with 18-pdr Batteries on the Western Boundary line of the Zone ordered, concentrating their fire on the Lanes allotted, and creep at the rate of 100 yards per two minutes to a depth of 600 yards ceasing at Zero plus 14 minutes.

If more than one Zone has been ordered, the procedure will be repeated in the other Zone or Zones, a two minutes pause being made between each barrage, 4.5" Hows. will be employed 200 yards in advance of the 18-pdr. Barrage.

(ii) Rates of Fire.
18-pdrs. 3 rds. per gun per minute.
4.5" Hows. 2 " " " "

(iii) Ammunition.
18-pdrs. 50% T.S. 50% H.E. (106 fuzes where possible).
4.5" Hows. H.E. (with 106 fuzes if possible).

(f) (i) In case communications are cut during a heavy enemy bombardment which is taken as indicating an enemy attack, it is considered necessary to have a Counter Preparation Scheme which will come automatically into force.

5. (f) Cont'd.

(i) The procedure as in (iii) below ^{will} therefore be carried out by Batteries if cut off from higher authority.

(ii) Zero hour throughout will be the opening of the enemy bombardment; Battery Commanders will use their own discretion as to their Zero hour. As soon as communications permit, Zero hour will be co-ordinated by Group Commanders.

(iii) The following procedure will obtain until interrupted by the "S.O.S." call :-

Zero hour to Zero plus 1 hour.

C.P. Scheme Phase 1.B. on Zones "D" and "C" at Rate "B"

Zero plus 1 hour to Zero plus 1 hour 15 mins.

C.P. Scheme Phase 2 on Zone "C", working westwards.

Zero plus 1 hour 15 mins. to plus 1 hour 45 mins.

C.P. Scheme. Phase 1.B. on Zone "B" at rate "B"

Zero plus 1 hour 45 mins. to plus 2 hours.

C.P. Scheme, Phase 2 on Zone "A", working Eastwards.

Zero plus 2 hours until receipt of "S.O.S." or orders to cease fire or hostile fire ceases.

In phase 1.B. only, and not in Phase 2, 4.5" Hows. if the wind is favourable, will use gas shell only on targets to be selected and detailed to Batteries by Group Commander.

[Signature]

Major.

A/ Brigade Major. 1st Aust. Div. Arty.

DISTRIBUTION. :- To all recipients of 1st Australian Divisional Artillery Instructions No. 9 - Series 5.

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FIRST AUSTRALIAN DIVISIONAL

Appendix 19
Copy No. 25
ARTILLERY.

INSTRUCTION NO. 11.
SERIES 5.

18/9/1918

1. As far as can be ascertained at present - the 3rd. Infantry Brigade is established on the Blue Line (Line of Exploitation). The 1st. Infantry Brigade are beyond Red Line (2nd Objective) and are in touch with Left of 3rd Infantry Brigade and Right of 74th Division.
2. (a) Group Commanders will move forward batteries where necessary so as to dispose brigades in depth at ranges varying between 2500 to 5000 yards from the line the Infantry are consolidating.
(b) 4.5" How. Batteries should not be the rearmost battery of Brigades.
3. ACKNOWLEDGE.

L. H. H. H. Major.
A/ Brigade Major. 1st Aust. Div. Art.

DISTRIBUTION.

To all recipients of 1st Australian Divisional
Artillery Instruction No. 10 - Series 5.

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SECRET.

APPENDIX 41

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 21

INSTRUCTION NO. 12
SERIES 5.

20/9/1918

1. An advance is being made by the 1st Australian Division and 74th Division on the morning 21st September. Zero Hour will be notified later.
2. (1) The Objective of 1st Aust. Div. is shewn in Red on the attached map.
The flank of the advance of 74th Division is shewn by a GREEN Line - the Right Objective of the 74th Division is QUENNELMONT FARM.
(2) It will thus be seen that it is not intended that a continuous objective between the two Divisions will be attained but that points of observation will be established overlooking the enemy system in A.27.A. and B.
3. The advance will be carried out by the 1st Aust. Infantry Brigade
4. (a) For purpose of this operation 2 18-pdr Batteries of Right Group will come under orders of C.O. Left Group Artillery.
(b) Left Group will then consist of.
14 - 18-pdr. Batteries.
4 - 4.5" How. Batteries.
(c) C.O. Left Group will arrange Artillery programme with G.O.C. 1st Aust. Infantry Brigade (except as in para (d))
(d) From Zero until such time as G.O.C. 1st Aust. Inf. Brigade and G.O.C. Right Inf. Bde. of 74th Division mutually agree that it is no longer required. C.O. ~~Right~~ will engage MALAKOF WOOD as follows :-

Left Group

1 4.5" How. Battery - on trench on western edge of MALAKOF WOOD.
This Battery will not use 106 Fuze.
1 4.5" How. Battery - on trench on Eastern edge of MALAKOF WOOD.
(no restriction as to fuze).
3 18-pdr guns to search and sweep MALAKOF WOOD.
3 18-pdr guns to enfilade PETER TR. (north edge of MALAKOF WOOD - using shrapnel with normal corrector.
5. (a) Right Group Artillery (10 18-pdr and 4 4.5" How. Batteries) will co-operate as follows :-
At Zero Right group Arty. will put down a Barrage on Right Sub-sector which will commence on a line to be arranged with G.O.C. 3rd Inf. Brigade by Right Group Commander.
(b) This Barrage will junction with Right of Left Group Barrage, will conform to its lifts - and will stop at same time.
- 6.

P.T.O.

6. Where the creeping Barrage crosses Trench System a corrector giving 25% graze will be used otherwise 50% graze.

7. ACKNOWLEDGE.



L. Curran Major

Brigade Major, 1st Aust. Div. Arty.

DISTRIBUTION

1st Aust. F.A. Bde.	1/5
2nd do	6/10
3rd (Army) A.F.A. Bde.	11/15
4th Aust. F.A. Bde.	16/20
5th Aust. F.A. Bde.	21/25
6th Aust. F.A. Bde.	26/30
7th Aust. F.A. Bde.	31/35
8th Brigade R.G.A. (Imp)	36
5th Army. Bde. R.F.A. "	37/41
1st Aust. Inf. Bde.	42
2nd do	43
3rd do	44
1st Aust. D.A.C.	45
2nd Aust. D.A.C.	46
3rd Aust. D.A.C.	47
D.T.M.O. 1st Aust. Div.	48
1st Aust. Div.	49
3rd Aust. P.A.	50
4th Aust. D.A.	51
74th Div. A. (Imp)	52
R.A. Aust. Corps.	53
H.A. Aust. Corps.	54
C.A.A. 1st Aust. Div.	55
Staff Captain.	56
Acconn. Officer.	57
Signal Officer.	58
File.	59
War Diary.	60/63
Spare.	63/65

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

1st AUSTRALIAN
DIVL. ARTILLERY
HEADQUARTERS.

S/128/138.

Date.....

20/9/18.

1. Reference 1st Aust Div. Arty. Instruction No.12. Series 5.
para 1.

ZERO hour will be 5.40 a.m. On 21st September 1918.

2. ACKNOWLEDGE.

Kilmer
Major.
Brigade Major 1st Aust. Div Arty.

DISTRIBUTION.

Right Group Arty.
Left Group Arty.
2nd F.A. Bde.
4th F.A. Bde.
5th F.A. Bde.
7th F.A. Bde.
8th F.A. Bde.
5th (Army) Brigade R.F.A.
68th Brigade R.G.A.
R.A., Aust Corps.
H.A., Aust Corps.
1st Aust. Div.
74th Div. Art.
4th Div. Art.
O.R.A. 1st A.D.A.
Reconnaissance Officer.
File.
Staff Captain.
Etc.

"C" Form
MESSAGES AND SIGNALS. No. of Message.....

Army Form C. 2123.
(In books of 100.)

Prefix.....	Code.....	Words.....	Received	Sent, or sent out	Office Stamp.
			From <i>DA</i>	At <i>4:10</i> m.	
Charges to collect			By <i>gof</i>	To.....	
Service Instructions:				By.....	
Handed in at.....			Office.....	m. Received <i>7:15</i> m.	

TO

4th and Left Sub Group

*Sender's Number

Day of Month

In reply to Number

A A A

*B252**20*

Ref para 4 "D" instructions

no 13 Series 5 in third line

for RIGHT GROUP and

LEFT GROUP

Acknowledge.

FROM

PLACE & TIME

1st D. H.

* This line should be erased if not required.

(B 8070) Wt. w. 7496—M357 250,000 Pads. 10/16 H & S (E436.) Forms/C.2123/3.

175
SECRET.

APPENDIX

45

Appendix A

Copy. No.....

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

21/9/18.

T.I. No. 9
INSTRUCTION. No. 13.
SERIES. 5.

1. (a). The IX Corps on the Right is taking over portion of the front and area of the Aust Corps as far North as the new inter-Corps boundary on the 22nd Sept. 1918.
(b). New Inter-Corps Boundary runs - P.2.C.0.4 - P.3.D.7.5 - thence along north side of road running East through P.4.C. and D; P.5 and P.6 to Q.1.B.4.2 - K.22.C.0.5 thence a line drawn East from that point.
(c). Command passes at 10 a.m. on 22nd Sept.
2. (a). The 4th Aust. Div. is being relieved on night 21st/22nd Sept. by 46th British Division which will take over as far North as the new Inter-Corps boundary.
(b). The Left Battalion of the 4th Aust. Div. now holding portion of the front between the new inter-Corps boundary and the present boundary, between 1st and 4th Aust. Divisions, passes temporarily to command of the G.O.C., 1st Aust. Div.
(c). Command passes at 10 p.m. 21st Sept.
3. ARTILLERY.
(a). The 5th Army Brigade R.F.A. will withdraw from the line to Wagon Lines on night 21st/22nd Sept., and will relieve the 6th Aust. Army F.A. Brigade in the present Right Division Sector on night 22nd/23rd Sept; under orders to be issued by 4th Aust. Div. Arty.
(b). On withdrawal of 5th Army brigade R.F.A, Artillery will be grouped as follows:-

RIGHT GROUP.

1st Aust F.A. Bde. } Lt. Col. E.T. DEAN. D.S.O.
2nd " " " } Commanding.

Right Sub-group.

7th Aust F.A. Bde. } Lt. Col. G.H.M. KING. C.M.G., D.S.O.
8th " " " } Commanding.

LEFT GROUP.

3rd Aust Army F.A. Bde. }
4th Aust F.A. Bde. } Lt. Col. G.I. STEVENSON. C.M.G.,
5th Aust F.A. Bde. } Commanding.

- (c). From 10 a.m. on 22nd Sept 1918. Group Lines will be -

RIGHT GROUP.

Southern Boundary - Line joining K.22.C.0.5 and G.23.D.0.5.
Northern Boundary - Present inter-Brigade Boundary (namely East and West line through G.8.Central).

LEFT GROUP.

Southern Boundary. - Present inter-Brigade Boundary.
Northern Boundary. - Present inter-Corps Boundary (namely line drawn East from F.29.D.3.0).

4. ACKNOWLEDGE.

L. White
Major.
Brigade Major. 1st Aust Div Arty.

DISTRIBUTION,
P.T.O.

DISTRIBUTION.

Right Group. Arty.	1
Left Group. Arty.	2
2nd F.A. Bde.	3
4th F.A. Bde.	4
5th. F.A. Bde.	5
7th F.A. Bde.	6
8th F.A. Bde.	7
5th (Army) Brigade R.F.A.	8
68th Brigade R.G.A.	9
H.A. Aust. Corps.	10
H.A. Aust. Corps.	11
1st Aust. Div.	12
74th Div. Arty.	13
4th Div. Arty.	14
C.R.A. 1st Aust. Div.	15
Staff Captain.	16
Reconn. Officer.	17
File.	18
War Diary.	19/20
Spare.	21/23

SECRET 75

APPENDIX

Copy No. 5

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

INSTRUCTION. No. 6.
SERIES 6.

25/9/18.

Appendix 1737

1. (a). At times and dates to be notified later AUSTRALIAN CORPS with 2 American Divisions affiliated, intends to attack the HINDENBURG LINE in the Sector NAURON-GOUY.
(b). In order to obtain a proper 'jump off' line for this attack it may be necessary for the Division on our Left to carry out a preliminary attack, which if it is necessary, will take place 48 hours before the main attack.
2. (a). Owing to the strength of the enemy defences opposite us, the coming operation will require a much greater bombardment than has latterly been found necessary.
(b). The main attack will be divided into 2 phases, and will be delivered on a front of two Divisions.
(i) The 30th American Division on Right and 27th American Division on Left will attack under a creeping barrage accompanied by tanks, and have as their objective the GREEN Line on map given to Group Commanders by C.R.A. this morning. (Copies of this map will be issued down to brigades later.)
(ii) After the capture of the GREEN Line, the 5th Australian Division on Right and 3rd Australian Division on Left, pass through the 30th American Division and the 27th American Division respectively, in order to exploit towards and capture the RED Line. At the same time troops specially allotted from 30th and 27th American Divisions exploit Southwards and Northwards respectively East of the tunnel, with a view to broadening the salient.
(c). For the purpose of this attack there will be 11 Brigades of Field Artillery in the Area of 30th American Division. 8 of these brigades consisting of 2 Divisional Artilleries and 4 Army Field Artillery brigades will take part in the creeping barrage for the initial attack.
1 Divisional Artillery and 1 Army Field Artillery brigade will be in Wagon Lines and will constitute the Field Artillery supporting the Exploiting Division.
This Army Brigade will select positions from which it can place an effective enfilade barrage on the flank of the area attacked by the 30th American Division. It will occupy these positions on night prior to "Attack Day".
The Divisional brigades will move off with their exploiting division, that is one brigade of Artillery to each of the 2 Infantry brigades of its Division. On completion of the flank barrage, the Army brigade detailed for that purpose will draw out and stand by ready to accompany the Supporting Infantry Brigade to which it has been allotted, as it moves forward in support of the 2 Infantry Brigades previously mentioned.
One Divisional Artillery will be allotted from the Barrage Artillery on completion of barrage, and ordered to move forward. The brigades of this Divisional Artillery will be attached to the regiment forming the protective flank. The remainder of the barrage artillery will remain in their positions and await further instructions.

P.T.O.

2. (a). The detailed allotment and designations of the Field Artillery on the front of the 30th American Division will be as follows:-

30th American Divisional Front.

(under C.R.A. 1st Australian Division).

1st Australian Divisional Artillery.	} Right Division Creeping Barrage Brigades.
2nd Australian Divisional Artillery.	
12th Army Brigade Australian Field Artillery.	
65th Army Brigade. R.F.A.	
84th Army Brigade. R.F.A.	
150th Army Brigade R.F.A.	

6th Army Brigade Australian Field Artillery. Right Flank Barrage Brigade.

For Exploitation to RED Line by 5th Australian Division. (Under C.R.A. 5th Australian Division).

5th Australian Divisional Artillery.	} Right Division Exploitation Brigades.
6th Army Brigade, Australian Field Artillery.	

For Exploitation Southwards to RED Line. (Under C.R.A. 1st Australian Division).

1st Australian Divisional Artillery plus one Army Brigade to be detailed later.	} Southern Exploitation Brigades.

The S.A.A. Section of 1st Aust. D.A.C. has been allotted to the 30th American Division.

3. BOUNDARIES. The boundaries will be as shown on the map issued to Group Commanders.

4. The following bombardments prior to main attack will commence 48 hours before Zero hour :-

- Special Gas (D.D.) Bombardment.
- Vigorous Counter Battery Work.
- Intense harassing fire.
- Cutting lanes in hostile wire defences.
- Bombardment of selected strong points and localities.

5. SPECIAL GAS. (B.B.) Bombardment.

This bombardment will be carried out by 18-pdrs and 6" Howitzers firing B.B. Gas Shell combined with H.E. during intermittent periods between Zero minus 56 hours and Zero minus 48 hours. The objectives will be the hostile defensive system and artillery positions along the Corps Front so far as the range of guns permits. Subsequent to Zero minus 48 hours NO "B.B." Gas Shell will be fired.

6. INTENSE HARASSING FIRE.

This will commence at Zero minus 48 hours immediately after the cessation of the special Gas "B.B." Bombardment. Plans for this will be drawn up and issued later. Facilities of observation must be fully exploited in order to limit the area in which unobserved harassing fire will have to be maintained by day. For the purpose of this harassing fire, Field Artillery will take a Zone up to 2,500 yards East of our Front Line. In shelling roads, H.E. with delay action is NOT to be employed.

7. CUTTING LANES IN HOSTILE WIRE DEFENCES.

This will commence at Zero minus 48 hours and will be carried out principally with 4.5" Howitzers and 6" Howitzers, and possibly 6" Newton mortars.

P.T.O.

8. BOMBARDMENT OF SELECTED STRONG POINTS IN LOCALITIES.

This bombardment will commence at Zero minus 48 hours and will be continued until Zero hour with a view not only to the destruction of defences, but also to the demoralisation of the defenders.

9. In order to carry out the tasks detailed above, and in confirmation of verbal orders by C.R.A. this morning, Group Commanders will select immediately, positions for all batteries in their Groups between 2000 and 2500 yards range from the Artillery "Start Line" as shown on map issued to them.

550 per 18 pdr.
50 - 4.5 how.
Ammunition up to 500 rounds per gun and howitzer will be dumped in those positions commencing immediately. Should a greater amount be required orders to this effect will be issued later.

10. Detailed instructions will be issued later concerning the following subjects:-

- (a). Bombardment and wire cutting.
- (b). Creeping Barrage (with Barrage Map).
- (c). Ammunition allotment.
- (d). Movement of Batteries.
- (e). Liaison and F.O.O. Parties.
- (f). Communications.

11. ACKNOWLEDGE.

W. M. Forbes
Major.
Brigade Major 1st Aust Div Art.

DISTRIBUTION.

1st F.A. Brigade.	1.
12th (Aust) (Army) F.A. Bde.	2.
2nd F.A. Brigade.	3.
4th F.A. Brigade.	4.
5th F.A. Brigade.	5.
65th Army Brigade R.F.A.	6.
84th Army Brigade R.F.A.	7.
150th Army Brigade R.F.A.	8.
68th Brigade R.G.A.	9.
R.A. Aust Corps.	10.
R.A., Aust Corps.	11.
1st Aust Div.	12.
30th American Division.	13.
27th American Division.	14.
2nd Aust. Div. Art.	15.
4th " " "	16.
5th " " "	17.
46th Div. Art. (Imperial)	18.
1st Aust D.A.C.	19.
D.T.M.O., 1st Aust Div.	20.
No. 1 Coy A.A. " "	21.
C.R.A. 1st Aust Div.	22.
Staff Captain.	23.
Reconn. Officer.	24.
Signal Officer.	25.
Filo.	26.
War Diary.	27-29.
6th Army Bde Aust F.A. Bde	30-32.
	33.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

25th Sept. 1918.

Instruction No. 7.
Series 6.Appendix ~~No. 24~~B.B. GAS BOMBARDMENT.

1. reference para 5 of 1st Aust. Div. Arty. Instruction No. 6 Series 6, the gas bombardment referred to will take place on the night 26th September. Zero hour will be notified later.
2. the periods of bombardment and periods of rest for Field Artillery will be as follows throughout the Gas (B.B.) attack.

GAS BOMBARDMENT - FIELD ARTILLERY.

Zero to Zero plus 15 minutes.	Bombard.
Zero plus 15 mins. to Zero plus 2 hours 15 mins.	Rest.
Zero plus 2 hrs. 15 mins. to Zero plus 2 hrs. 30 mins.	Bombard.
Zero plus 2 hrs. 30 mins. to Zero plus 4 hrs. 30 mins.	Rest.
Zero plus 4 hrs. 30 mins. to Zero plus 4 hrs. 45 mins.	Bombard.
Zero plus 4 hrs. 45 mins. to Zero plus 6 hrs. 45 mins.	Rest.
Zero plus 6 hrs. 45 mins. to Zero plus 7 hrs.	Bombard.

3. Rates of fire. Rapid throughout.
4. OBJECTIVES FOR BOMBARDMENT. The attached diagrams show the areas for bombardment, and the following table the rounds to be expended by each group concerned.
The areas in circles to be concentrated upon.

LEFT GROUP.Area as per diagram.18 pdr. B.B.H.E. 18 pdr.
or 4.5" How.M
L
12 P
P
Q

1000 1000
750 750
1000
500 250
500 500

300
250
300
200
200

3750

1250

RIGHT GROUP.Area as per diagram.18 pdr B.B.H.E. 18 pdr.
or 4.5" How.R
S
T
U

1000
1000
750
1000

300
300
250
300

3750

1150

5. B.B. gas shell only will be employed, and H.E. will be mixed in all cases in the proportion of approximately three gas shells to one H.E.
6. Gas shell other than B.B. are not being mixed owing to the fact that B.B. affords the enemy very little indication of its presence. The mixture of other gas shell would at once apprise the enemy of the presence of gas in the area, and would cause him to adjust his mask more readily and thus lessen the effect of B.B.

P.T.O

7. H.E. is being mixed with S.B. in order to disguise as much as possible the smaller burst of the gas shell, and in order to lead the enemy to believe he is under a H.E. bombardment only.
8. Our troops are safe from a cloud passed from this shell at about one mile if the wind is blowing directly towards them. The best effect is gained in a wind from 10 miles and under, but it can be used with effect in a wind up to 15 miles per hour.
9. The bombardment will take effect whatever the weather conditions may be at the time set out for it to commence.
10. watches will be synchronized by groups four hours and 1 hour prior to Zero by telephone to Div. Arty Headquarters.

ACKNOWLEDGE.

W. M. Forbes
Major.
Brigade Major. 1st Aus. Div. Arty.

Distribution.

1st F.A. Brigade.	1-5.
12th Aust. (Army) F.A. Bde.	6-10.
2nd F.A. Brigade.	11-15.
4th F.A. Brigade.	16-20.
5th F.A. Brigade.	21-25.
65th Army Brigade A.F.A.	26-30.
64th " " "	31-35.
150th " " "	36-40.
93 rd th Brigade A.C.A.	41.
R.A. Aust. Corps.	42.
A.A. Aust. Corps.	43.
1st. Aust. Div.	44.
30th American Division.	45.
27th " " "	46.
2nd Aust. Div. Arty.	47.
4th " " "	48.
5th " " "	49.
4th Div. Arty (Imperial).	50.
1st Aust. D.A.C.	51.
D.T.M.O., 1st Aust. Div.	52.
C.A.A., 1st Aust. Div.	53.
Staff Captain.	54.
Accconn. Officer.	55.
Signal Officer.	56.
File.	57.
War Diary.	58-60.
Spare.	61-64.
6th Aust (Army) F.A. Bde.	65. (For information).

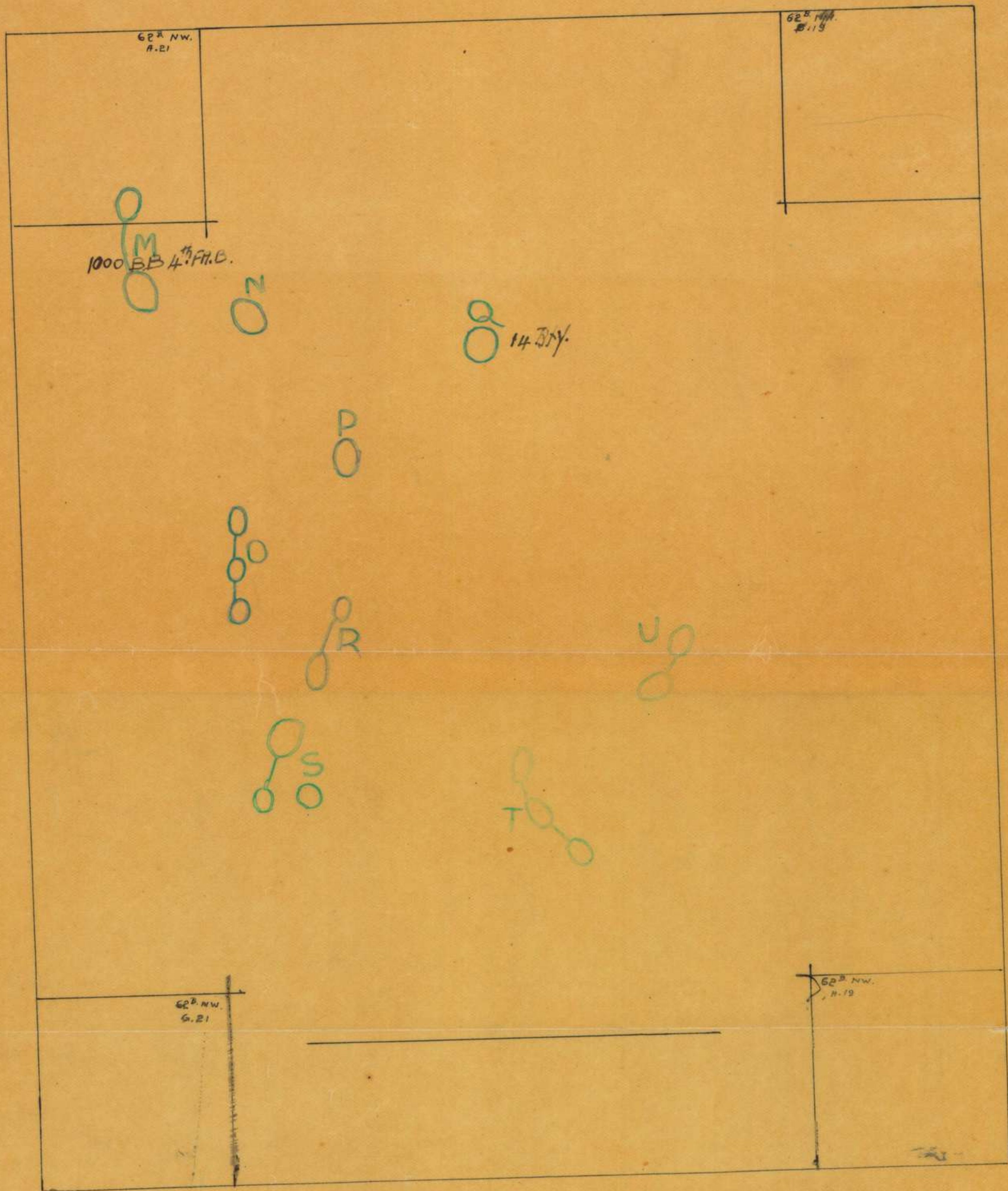
PH
SECRET.*AMP*
FIRST AUSTRALIAN DIVISIONAL ARTILLERY.
=====Copy No. *21*.....Addendum to 1st. Aust. Div. Arty. Instruction No. 7.Series 6.

1. Zero Hour will be 9.30 pm. 26th September 1918.
2. No synchronization of watches will be done over the telephone forward of Group Headquarters.
3. ACKNOWLEDGE. *PH*

W. M. Forbes
Major.
Brigade Major. 1st Aust. Div. Arty.

Distribution.

Issued to all recipients
of 1st Aust. Div. Arty.
Instruction No. 7.



75
SECRET.

APPENDIX. 55

Appendix A/27

Copy No.....

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Instruction No. 10.
Series 6.

28th September 1918.

1. Reference the Harassing Fire and Selected Points Bombardment referred to in paras. 6 and 8 of 1st Aust. Div. Arty Instruction No. 6 Series 6.
 - (a). This bombardment will commence immediately on the cessation of the gas bombardment referred to in Instruction No. 7.
 - (b). (i) Allotment of ammunition has already been detailed in Instruction No. 8.
 - (ii). Of the amounts allotted for this bombardment, 30% will be fired by day and 70% by night
 - (iii) All the ammunition allotted for 4.5" Hows. during this period will be expended in wirecutting for which a special programme will be issued later.
 - (c). This bombardment will be carried out by Groups in their own Group Lanes as at present existing.
 - (d). The Field Artillery will fire up to 2500 yards East of the Infantry Jumping Off Line.
 - (e). (i) In arranging programmes the keynote should be variety and surprise, plans being so framed that, throughout the 24 hours of day and night the enemy is permitted no immunity from shell fire.
 - (ii) Facilities of observation must be fully exploited in order to limit the area in which unobserved harassing fire will have to be maintained by day.
 - (iii) The following points will receive special attention throughout, both by day and night.

Unobserved areas in A.27. and G.3.A.&B.
Eastern entrances to BELLICOURT.
main C. T's running East and West through (a) G.17.A.,
(b) G.11.C. and G.10.D. (c) G.11.A. and G.10.B.
and (d) G.4.E. and A.
All approaches to front system of enemy defences.
Areas concentrated on during gas bombardment.
Exits and entrances of Canal Tunnel.
 - (iv) In enfilading communication trenches shrapnel with a normal corrector will be used.
 - (f). This bombardment will take the form of shell storms of varying intervals and durations, either by whole brigades or smaller units. In no case will the fire unit be less than a half battery.
2. MOVEMENT TO BATTLE POSITIONS.
 - (a). Battle positions will be occupied as under :-
 - 50% of guns on night 27th/28th September.
 - 50% of guns on night 28th/29th September.
 - (b). Not more than one section per battery is to be out of action at the same time.
 - (c). Of the guns which move forward on the night 27th/28th, only those whose flashes cannot be observed will take part in the bombardment, the majority of which will be fired by guns which do not move. Those guns whose flashes can be observed will only fire on S.O.S. on this night.

P.T.O.

2. (Continued).

- (d). On the night 28th/29th September the bombardment must be carried out, but only those guns whose flashes cannot be observed by the enemy will be used.
- (e). Positions selected by 5th Aust. Army F.A. Brigade will be occupied as early as possible after dark on night 28th/29th September.

3. ACKNOWLEDGE.


Alec M. Forbes

Major.
Brigade major. 1st Aust. Div. Arty.

Distribution.

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Instruction No. 9.

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FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.

Amendment to 1st Aus. Div. Arty. Instruction No. 10.
Series I.

reference para 1. (a).

1. zero hour for the commencement of the bombardment will be 5.30 *am* on 27th September and not on cessation of gas bombardment as stated.

2. ACKNOWLEDGE.*Alec M. Forbes*Major.
Brigade Major. 1st Aus. Div. Arty.Distribution.Issued to all recipients
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APPENDIX

57

75
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FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.

26th Sept. 1918.

INSTRUCTION NO. 13.Series 8.Appendix ~~MS~~1. WIRE CUTTING.

Wire cutting will commence as soon as possible after daylight on 27th Septem. or and will be continued throughout the 27th and 28th September.

2. Corps Heavy Artillery have arranged to cut the following lanes:-

(1)	A.27.A.10.00	A.27.A.20.00	A.27.B.10.00	
(2)	A.27.C.00.00	A.27.C.30.00	A.27.D.20.00	
(3)	G.3.C.25.30	G.3.C.55.30	G.3.C.82.30	A.3.D.37.30
(4)	G.9.A.35.85	G.9.A.95.90	G.9.B.40.95	
(5)	G.9.C.32.85	G.9.C.80.90	G.9.B.22.15	
(6)	G.9.D.25.22	G.9.D.82.67		
(7)	G.15.B.42.75	G.15.B.82.78	G.16.A.30.92	

3. The following lanes will be cut by 4.5" Hows. :-

LEFT GROUP.

104 { (1) A.27.C.10.62 A.27.C.40.68 A.27.D.15.76
(50 rds p h.) (75 rds p h.) (50 rds p h.)
(2) G.3.A.15.39 G.3.A.63.35 G.3.B.33.46
(50 rds p h.) (75 rds p h.) (75 rds p h.)
(3) G.3.C.32.98 G.3.C.55.98 G.3.C.72.98 G.3.B.34.07
(75 rds p h.) (50 rds p h.) (50 rds p h.) (75 rds p h.)
(4) G.9.A.05.40 G.9.B.00.60 G.9.B.42.76
(75 rds p h.) (100 rds p h.) (75 rds p h.)

RIGHT GROUP.

(5) G.9.C.82.70 G.9.C.98.72 G.9.B.45.00
(100 rds p h) (75 rds p h) (100 rds p h)
(6) G.9.D.43.07 G.9.D.80.05 G.10.C.20.15
(75 rds p h) (75 rds p h) (75 rds p h)
(7) G.15.B.86.57 G.16.A.42.78
(100 rds p h) (75 rds p h)
(8) G.16.A.15.26 G.16.A.34.32 G.16.A.52.45 G.16.A.50.70
(75 rds p h) (75 rds p h) (75 rds p h) (100 rds p h)

4. (a). Each of the coordinates given above is to be the M.P.I. of two 4.5" Hows.
(b). The figures shown under each coordinate are the number of rounds to be fired on each M.P.I. by each of the two hows. told off to it, on each day i.e. :- the number of rounds fired on each M.P.I. during the 48 hours of bombardment will be four times the figures shown under each coordinate.
(c). Ranging rounds on each M.P.I. will NOT be taken out of the amount allotted for this M.P.I.
(d). 25% of the amount fired during each 24 hours will be fired at night.
(e). 108 fuze will be used throughout.

P.T.O.

- 2.
5. (a). The D.T.M.O., 1st Aust. Div. has 6 M.T.M's emplaced which will cut the wire in G.15., G.14.E. and G.8.
(b). He is also emplacing 6 M.T.M's to cut the wire in A.27.C. and G.3.A. and C.

6. ACKNOWLEDGE.

Alec M. Jordan
Major.
Brigade Major. 1st Aus. Div. Arty.

Distribution.

Issued to all recipients
of 1st Aus. Div. Arty.
Instruction No. 12.

(1) A.27.C.10.32 (100 rds p h.) (75 rds p h.)
(2) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(3) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(4) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(5) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(6) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(7) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(8) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(9) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(10) G.3.A.15.32 (100 rds p h.) (75 rds p h.)

(1) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(2) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(3) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(4) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(5) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(6) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(7) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(8) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(9) G.3.A.15.32 (100 rds p h.) (75 rds p h.)
(10) G.3.A.15.32 (100 rds p h.) (75 rds p h.)

(a). Each of the coordinates given above is to be the M.P.I. of two 4.2" howitzers.
(b). The figures shown under each coordinate are the number of rounds to be fired on each M.P.I. by each of the two howitzers. The number of rounds fired on each M.P.I. during the 48 hours of bombardment will be four times the figure shown under each coordinate.
(c). Ammunition rounds on each M.P.I. will not be taken out of the amount allotted for this M.P.I.

(d). 25% of the amount fired during each 24 hours will be fired at night.
(e). The two howitzers will be used throughout.

P.T.O.

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Cop No.

27th September 1918.

INSTRUCTION NO. 14.
Series C.

1. The Field Artillery distribution on the front of the 30th American Division for exploitation will be as follows:-
This distribution will come into force on the completion of the protective barrage to the GREEN line.

Formation.	Divisional Arty.	Army Brigades.
2nd Aust. Div.	2nd Aust. D.A. (Brig. General O.F. PHILLIPS D.S.O.)	12th Army Bde A.F.A.
5th Aust. Div.	5th Aust. D.A. (Brig. Gen. A.F. BESSELL-BROWNE C.B., C.M.G., D.S.O.)	6th Army Bde A.F.A.
30th American Division.	1st Aus. D.A. (Brig. Gen. S.M. ANDERSON D.S.O.)	150th Army Bde R.F.A.
Corps Reserve.		84th and 65th Army Brigades R.F.A.

2. ACKNOWLEDGE.

Distribution.

Issued to all recipients
of 1st Aus. Div Arty.
Instruction No. 13.

Chas. M. Forbes
Major.
Brigade Major. 1st Aus. Div. Arty.

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.
=====

Copy No. *21* *NMR*

27th September 1918.

AMENDMENT TO INSTRUCTION NO. 14. Series 6.

1. After the completion of the Protective barrage to the GREEN line the 4th and 5th brigades Aust. F.A. and the 65th and 84th Army Brigades K.F.A. will not revert immediately to C.R.A., 2nd Aust. Div. and Corps Reserve but will remain under the C.R.A., 1st Aust. Div. until further orders.
2. They will remain in observation in the positions from which they have fired the barrage and will be prepared to move at short notice.
3. Should they be required to move, attention is directed to Instruction NO. 17.
4. ACKNOWLEDGE. *[Signature]*

Alec. M. Forbe

major.
brigade major. 1st Aust. Div. Arty.

Distribution.

Issued to all recipients
of 1st Aust. Div. Arty.
Instruction NO. 14.

APPENDIX

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61

SECRET.

Copy No. 21

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Instruction No. 8.
Series 6.

28th September 1918.

AMMUNITION.

1. FIELD ARTILLERY.

(a). The following ammunition will be held by Field Artillery allotted to C.R.A.'s. at Zero hour on the day of Operation :-

	At Guns.	Echelon.	A.R.P.	Corps Res.	Total.
18 pdrs.	550	276	50	125	1001 rds per gun.
4.5" Hows.	450	222	50	90	812 rds per How.

(b). A similar amount will also be held by the 6th Army Brigade A.F.A.

(c). Ammunition will be held in the following proportions :-

18 pdr. At Gun Dumps. 20% A.S. if available, (if unavailable to be replaced by A).
40% A.
40% AX.

Echelons, A.R.P. 60% A.
and Corps Res. 40% AX.

4.5" How. At Gun Dumps. 20% B.S. if available.
80% B.X.

Echelons A.R.P. B X.
and Corps Res.

2. The following statement shows the estimated expenditure per gun per day. This is only to be taken as a guide in working out the daily expenditure :-

Statement showing Estimated expenditure per gun per day.

Day.	No. of bds.	Nature of gun.	No. of rds per gun.	Remarks.
Zero minus 3 days.	8	18 pdr. 4.5" How.	30 30	
Zero minus 2 days.	8	18 pdr. 4.5" How.	100 100	
Zero minus 1 day.	8	18 pdr. 4.5" How.	100 100	
Zero day.	8	18 pdr. 4.5" How.	550 450	Barrage Brigades.
Zero day.	1	18 pdr. 4.5" How.	550 450	6th Army F.A. Brigade for Flank Barrage.

P.T.O.

(2).

Day.	No of rds.	nature of gun.	No. of rds per gun.	Remarks.
Zero day.	3	18 pdrs. 4.5" how.	50 50 }	1st and 2nd Bdes and probably 150th Bde R.F.A. allotted to 30th American Division for exploitation.
Zero plus 1 day.	7	18 pdr. 4.5" How.	100 100	

NOTE. This does not include expenditure of B.E. Gas shell.

3. ACKNOWLEDGE.

Chas. M. Forbes
Major.
Brigade major. 1st Aust. Div. Arty.

Distribution.

Issued to all recipients
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Instruction no, 7 plus
6th Army F.A. Bde. 5 Copies

Day.	No. of rds.	nature of gun.	No. of rds per gun.	Remarks.
Zero day.	3	18 pdrs. 4.5" how.	50 50 }	1st and 2nd Bdes and probably 150th Bde R.F.A. allotted to 30th American Division for exploitation.
Zero plus 1 day.	7	18 pdr. 4.5" How.	100 100	

SECRET.

Copy No.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Instruction No. 9.
Series 6.25th September 1918.1. MAIN ATTACK.

The main attack referred to in 1st. Aus. Div. Arty. Instruction No. 6, paragraph 1, is designed with a view to giving our attacking Infantry the support of a creeping barrage for an average depth from the Artillery Start Line to approximately 4500 yards East.

This depth, although greater than has usually been demanded is necessary to ensure the successful capture, with the maximum of Artillery support, of LE CATELET - GOUY on the North and NAUROY on the South - two strongly defended areas.

It is essential, therefore, that the utmost care should be exercised in the preparation for the barrage in order to ensure its accuracy.

2. PRELIMINARY PREPARATIONS.

In this operation, as in those lately undertaken, accurate registration from battle positions is neither possible, owing to the limit of time, nor advisable owing to the likelihood of the enemy gaining information of our plans.

For the above reasons the instructions previously issued are reiterated, and are to be adhered to with the utmost care so far as circumstances permit.

- (a). The accurate fixation of the battery positions and accurate determination of the exact height of the site selected are to be arranged.
- (b). Attention is to be directed to likely alterations in the angle of sight during the progress of barrage.
- (c). The barrage is to be rehearsed without firing, prior to the attack taking place.
- (d). Lines of fire are to be checked by direct means where possible.
- (e). The Field Clinometer is to be employed to check the accuracy of every gun on the start line. Throughout the creeping and protective barrages an Officer must be told off to check the guns of his battery at stated periods by the same means.
- (f). Corrector lengths are to be arranged in order to give 50% of time shell on graze.
- (g). So far as time permits, ammunition is to be sorted by lots and carefully checked and grouped.
- (h). The most careful attention is to be paid to atmospheric conditions.
- (i). It is essential to ensure that sights are tested the day prior to Zero day.

The enemy must be afforded as little opportunity of learning our plans as is humanly possible. This can be ensured by allowing no unnecessary movement by day on roads or at Battery positions.

Reconnaissance Officers are not to be permitted to expose themselves or their maps in view of the enemy.

P.T.O.

2. (Cont.)

Strict attention is to be paid to the use of camouflage on all forward gun positions and dumps, and where work is being carried out the site is to be previously camouflaged.

TELEPHONES. As it is known that the enemy has very effective listening sets installed, vigilance must be exercised in telephone messages sent over lines within 3000 yards of the front line.

No information that would in any way give indication of impending attack, or times and dates of operations, should be sent in 'clear'.

3. Brigade Commanders of 1st and 2nd F.A. Brigades and 150th Brigade R.F.A. who will probably be required to support the exploitation to the RED line by the 30th American Division, will carefully study from maps, air photographs and where possible, from visual observation, the country and routes they are likely to move over during the advance.

4. USE OF SMOKE WITH GAS BY DAY. When gas shells are used by day they should be mixed with a proportion of smoke shell, thus educating the enemy to adjust his gas masks whenever smoke shell are employed.

5. ACKNOWLEDGE.

Alec M. Forbes

Major.
Brigade Major. 1st Aust. Div. Arty.

Distribution.

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Instruction No. 8.

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FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.....

INSTRUCTION NO. 11.
Series 6.

26-9-18

Reference map issued with Instruction No. 6.

1. (a). On Attack Day the attack to the green line is to be carried out by the 60th American Infantry Brigade, the 120th Infantry Regiment being on the right and the 119th on the left. Boundary between the regiments will be the line:-
Along road on SENTINEL RIDGE to BELLICOURT, thence along Railway from G.4.D.0.8 to crossing of sunken road at G.5.D.9.7 thence due East to objective (G.6.C.55.85.)
- (b). The 60th Brigade is to relieve the 118th Infantry Regiment in the line on the night of attack minus two days.
- (c). The 117th Infantry Regiment is to follow the 119th and 120th Regiments. At the conclusion of the creeping barrage the 117th Regiment is to advance to the dotted Green Line.
- (d). Both the above movements are to be supported by tanks.
- (e). After the Green Line has been gained the 5th Australian Division with its own Artillery (including 6th Aust (Army) F.A. Brigade) and tanks is to pass through the 60th American Infantry Brigade and continue the advance to the Red Line. During the operation of the 5th Australian Division, the 117th Infantry Regiment is to resume its advance in order to protect the flanks of this movement. Its objectives during this phase are shown in red on the map and its left flank rests on the Black Line running South East.
- (f). During the course of the operation the 118th Infantry Regiment is to be in Divisional Reserve.
2. LIGHT SIGNALS. The only Light signals to be used are :-
 - (a). The S.O.S. signal - A No. 32 Rifle Grenade. bursting into RED over RED over RED.
 - (b). The success signal - A No. 32 Rifle Grenade bursting into WHITE over WHITE over WHITE.
3. LIASON. (a). Liaison duties during the operations will be carried out as follows :-

With 60th American Infantry Brigade. L.10.A.1.4.
C.O. Left Group.

With 59th American Infantry Brigade. L.26.C.4.7.
C.O. Right Group.

With 119th American Infantry Regiment. L.5.D.5.9.

C.O., or Battery Commander from 85th Army Brigade R.F.A. (to be detailed by C.O. Left Group and to maintain communication with him)

P.T.O.

3. (a). (Continued).

With 120th Infantry Regiment. L.23.B.7.6.

C.O. or Battery Commander from 84th Army Brigade R.F.A. (to be detailed by C.O. Right Group and to maintain communication with him).

With 117th Infantry Regiment. L.17.B.4.3.

C.O. 150th Army Brigade R.F.A. (to maintain communications with C.O. Right Group).

(b). In addition to this the C.Os. Right and Left Groups will supply a Liaison Officer with the necessary party with each of the attacking battalions of the 120th and 119th Infantry Regiments respectively. Group Commanders will be responsible for maintaining communication with their respective battalion Liaison Officers.

(c). All Liaison Officers will be in position at Zero minus 12 hours.

4. F.O.O. PARTIES.

(a). Each Group will provide an F.O.O. party consisting of two Officers, six telephonists and three C.W. operators. Each Group F.O.O. party will be provided with a C.W. Wireless set and the necessary telephones, cable, lucas lamps etc. A C.W. set will be installed at each Group Headquarters and one at D.A.H.Q.. The Signal Officer, 1st D.A.H.Q. will make the necessary provision of these sets.

(b). In addition to the Group F.O.O. party detailed above each Brigade will man its normal O.P. from Zero hour.

(c). Group F.O.O. parties will be in position by Zero minus three hours.

4. Two mounted orderlies from each Brigade will report to 1st D.A.H.Q. by 6 pm. on 28th September. Should a Brigade move its H.Q. during the course of the operations two fresh orderlies will be sent to replace those, immediately on arrival at the new H.Q.

5. ACKNOWLEDGE.

Alce. M. Forbes

Major.
Brigade Major. 1st Aust. Div. Arty.

Distribution.

Issued to all recipients
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Instruction No, 10 plus
5 Army Brigade B.A.Cs.

Appendix 1129

SECRET.

Copy No. 21.....

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.INSTRUCTION NO. 12.
Series 6.28/9/1918.

1. (a). On the 27th September, at 5.30 am. the 27th American Division is advancing its line to the Objective line shown on the attached map in order to obtain a jumping off line for the forthcoming operation.
(b). The Field Artillery covering the 30th American Division will not take part in this barrage.
2. (a). Either tonight or at the same time as the operation on the left, the 30th American Division is pushing forward its line where necessary in order to reach this objective line.
(b). The Artillery covering the 30th American Division will support this movement under arrangements to be made direct between Group Commanders and the G.O.C., 59th Infantry Brigade and the G.O., 118th Infantry Regiment.
3. ACKNOWLEDGE. ✓

Alec M. Forbes
Major.
Brigade Major, 1st Aus. Div. Arty.

Distribution.

Issued to all recipients
of 1st Aus. Div Arty.
Instruction No. 11.

SECRET.FIRST AUSTRALIAN DIVISIONAL ARTILLERY.
=====

Copy No. 21.....

SECOND AMENDMENT TO 1ST AUST. DIV. ARTY. INSTRUCTION NO. 14.
Series 6.

1. In amendment to Instruction No. 14, para 1.
After "4th and 5th Brigades Aust. F.A." add "12th Army Aust
F.A. brigade".
2. All the brigades mentioned will be prepared to reopen fire on
the protective barrage to the GREEN line on receipt of orders
from this Office.
3. ACKNOWLEDGE.

*Alec W. Forbes*major.
brigade major. 1st. Aust. Div. Arty.Distribution.To all recipients of 1st. Aus.
Div. Arty Instruction No. 14.
=====

APPENDIX

75
SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No.

27/9/1918.

INSTRUCTION NO. 15.
Series 6.

Reference. Barrage diagram attached.

1. (a). The attached barrage diagram shows the boundary between Right and Left Groups for the operation and will come into force at Zero hour.
- (b). West of the Canal the Southern Boundary of the Right Groups barrage will be the line marked in BLUE on the diagram, i.e. G.20.B.5.4 - G.21.B.8.6 thence along road to Canal. No notice will be taken by the Right Group of the continuation of the barrage lines South of this Line. East of the Canal the Southern boundary of the barrage lines will be as shown on the diagrams.
- (c). The boundary between the Aust. Corps and the IXth Corps East of the Canal will be the East and West Grid Line through G.22 Central - G.23 Central - G.24 Central to sunken road at H.19. B.5.0 thence along sunken road inclusive to Aust. Corps. to H.15.A.4.6 thence due East along Line marked final Corps boundary.
The above boundary will be the dividing line for troops and all artillery fire. There will be no artillery fire South of this line except ordered in instructions for exploitation which will be issued later or as may be ordered by D.A.H.Q.
2. (a). The 18 pounder barrage will open at Zero on a line 200 yards East of the "Infantry Forming Up Line".
At Zero plus 3 minutes the barrage will lift and will move forward at the rate of 100 yards in 3 minutes. There will be six lifts at this rate.
The rate of lift will then decrease to a 100 yards in 4 minutes, until the "Artillery Halt Line" is reached. The barrage halts on this line for a period of 15 minutes, i.e., Zero plus 85 mins to Zero plus 100 minutes.
At Zero plus 100 minutes the barrage will advance at the rate of 100 yards in 4 minutes until the "Protective Barrage Line to the First Objective" (GREEN LINE) is reached, which is 400 yards East of the GREEN line.
All fire ceases at Zero plus 215 minutes.
- (b). The 4.5" how. barrage will conform to the lifts and times of the 18 pounder barrage, but will move 200 yards in advance of it.
- (c). RATES OF FIRE.
Throughout creeping barrage :-
18 pounders - 3 rounds per gun per minute.
4.5" hows. - 2 rounds per how. per minute.
Whilst on protective barrage and "Artillery Halt Line" :-
18 pounders) - 1 round per gun per minute.
4.5" hows.)
Except on the "Artillery Halt Line" between A.22.D.10.45 to A.28.B.4.0 where it will remain 3 and 2 rounds per gun and how. per minute respectively.
- (d). AMMUNITION.
18 pounders. { 40% H.E. non delay.
 { 50% Shrapnel { 50% on graze)
 { 10% Smoke.
4.5" hows. H.E. 106 fuzes.
3. ZONE CALLS. The usual arrangements will be made for answering Zone calls.

4. SMOKE BARRAGES.

- (a) The 6th. Aust. (Army) F.A. Brigade will form smoke screens on the Right Flank of the Division in accordance with the barrage map attached, except that the screen marked Zero to plus 30 will run G.21.B.90.90. - G.22.A.25.75. - G.16.D.20.00. instead of as shown on the diagram
- (b) There are three separate smoke screens viz:-
Zero to plus 30 minutes hereafter called A.
Zero to plus 116 minutes hereafter called B.
Plus 116 to 8.30 a.m. hereafter called C.
- (c) A. by 4.5" How. Battery.
Zero to plus 3. 5 salvoes from West to East each on a frontage of 150 yards = 30 rounds.
Plus 3 to plus 30. At Battery fire 5 secs. along the whole frontage = 300 rounds.
This screen ceases gradually from West to East 200 yards in advance of the 18-pdr. Barrage Lines.
- (d) B. by 3 18-pdr. Batteries throughout and by one 4.5" How. Battery after Zero plus 30 minutes. The frontage will be divided equally between 3 18-pdr. Batteries.
At Zero hour each Battery to fire three salvoes from West to East, each salvo covering 120 yards = 54 rounds.
Each Battery will then sweep its whole frontage at Battery fire at the rate shown in the following Table with occasional salvoes as also shown in the Table.

<u>Time.</u>	<u>Rate of Battery Fire.</u>	<u>Rounds.</u>
plus 3 to plus 8.	3 secs.	300
" 8 " " 13.	5 secs.	180
" 3 salvoes per battery.		54
plus 15 to plus 30.	5 secs.	540
3 salvoes per Battery.		54
plus 30 to plus 40.	10 secs.	90
3 salvoes per Battery.		54
plus 42 to plus 52.	10 secs.	90
3 salvoes per Battery.		54
plus 54 to plus 64.	10 secs.	90
3 salvoes per Battery.		54
plus 66 to plus 76.	10 secs.	90
3 salvoes per Battery.		54
plus 78 to plus 88.	10 secs.	90
3 salvoes per Battery.		54
plus 90 to plus 100.	10 secs.	90
3 salvoes per Battery.		54
plus 102 to plus 116.	10 secs.	150
		<u>2242</u>

- The 4.5" How. Battery will thicken up the whole length of this screen at Battery fire 10 secs. from plus 30 to plus 116 (516 rounds).
- (e) C. Having regard to the ammunition available C.O. 6th. Aust. (Army) F.A. Brigade will arrange this screen in a similar manner as detailed for B screen.
- (f) These smoke screens are to be observed and reported on from time to time, and a general report is also to be submitted on conclusion

5. NORMAL FIRE UP TO ZERO.

Normal harassing fire will be continued by Heavy and Field Artillery up to Zero hour for the attack.

6. S.O.S. INOPERATIVE.

15 minutes prior to Zero S.O.S. will be inoperative.

7. ACKNOWLEDGE.

Alce M. Forbes Major..
Brigade major, 1st. Aust. Div. Arty.

DISTRIBUTION.

All recipients of 1st. A.D.A.
Instruction No. 13.

SECRET.

Copy No. 21

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.
=====

28th September 1918.

Addendum to 1st Aust. Div. Arty. Instruction No. 15.
Series 6.

1. During the commencement of the barrage 12 medium Trench Mortars emplaced along the Divisional Front will cut wire.
2. They will keep 200 yards in front of the 18 pounder barrage and will cease fire on reaching their maximum range.
3. They will not fire South of the Line G.20.B.5.4 , G.16.D.1.7.
4. Rate of fire will be maximum.
5. ACKNOWLEDGE.

Alec. W. Forbes
Major.
brigade major. 1st. Aust. Div. Arty.

Distribution.

----- Issued to all recipients of 1st Aust. Div. Arty.
Instruction No. 15.

APPENDIX

42

SECRET.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

Copy No. 21

AMENDMENT TO 1ST AUST. DIV. ARTY. INSTRUCTION NO. 15.
Series 6.28th September 1918.

1. Para. 2 (a) is cancelled and the following substituted :-
The 18 pounder barrage will open at Zero on a line 200 yards East of the "Infantry Forming Up Line".
At Zero plus 4 the barrage will lift and will move forward at the rate of 100 yards in 4 minutes until the "Artillery Halt Line" is reached. The barrage halts on this line for a period of 15 minutes, i.e., Zero plus 92 minutes to Zero plus 107 minutes.
At zero plus 107 minutes the barrage will advance at the rate of 100 yards in 4 minutes until the "Protective Barrage Line to the first objective" (GREEN LINE) is reached, which is 400 yards East of the GREEN line.
Fire will remain on the Protective Barrage Line until Zero plus 222 minutes, when all fire will cease.
2. The timings on all barrage diagrams will be altered in accordance with the above.
3. This amendment will not affect the timing of Smoke Screens.
4. ACKNOWLEDGE.

Alce. W. Forster
major.
brigade major. 1st. Aust. Div. Arty.

Distribution.

to all recipients of 1st Aust.
Div. Arty Instruction No. 15.

SECRET.

Copy No.....

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

27th September 1918.

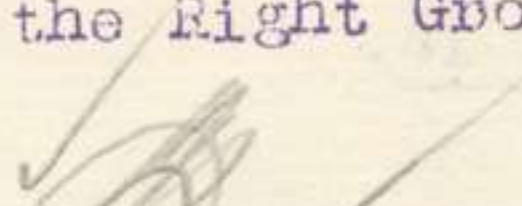
INSTRUCTION NO. 16.
Series F.EXPLOITATION.

1. Exploitation to the Green dotted line is being carried out by the 117th. American Regiment assisted by Tanks and covered by Field Artillery smoke screens as shown on the Barrage Map.
2. Further exploitation in a S.E. direction by the 30th. American Division is contingent upon the success or otherwise of the 46th. Division on our Right.
Should the 46th. Division succeed in crossing the Canal with their Left on the inter-Corps Boundary and then succeed in advancing East, no movement S.E. by the 30th. American Division will be necessary.
Should the 46th. Division be hold up, exploitation by the 30th. American Division will be ordered.
3. Artillery available for this exploitation will be

1st. Aust. F.A.Brigade.	} 1st. Aust. Div. Arty.
2nd. Aust. F.A.Brigade.	

150th. Army Brigade R.F.A.
93rd. H.A.Brigade (less 9.2" and 8" Hows.)
4. The 1st. and 2nd. Aust. F.A.Brigades are well placed for co-operation in this operation and will not move in the first instance, but after ceasing fire on the protective barrage line will remain in observation.
Similarly the 93rd. H.A.Brigade, after completion of its tasks will remain in observation.
But in the case both of Field and Heavy Artillery limbers and wagons will be moved up and all preparations made for a forward move.
5. The 150th. Army Brigade R.F.A. is detailed to the close support of the 117th. American Infantry Regiment, and for this purpose will cease fire in the barrage on reaching the Green Line, and their place in the remainder of the barrage and the protective barrage will be taken under arrangements to be made by the Group Commander.
6. The 150th. Brigade R.F.A. will be directed on Squares G.11.C. and will march by the Black Road (see Road Map issued with Instruction No. 17 (to follow).
7. They are not to be on this road before 9 a.m., but at 9 a.m. they are given precedence of all other traffic on this road and must proceed to their destination as rapidly as possible.
8. Arrangements as regards Liaison with the 117th. American Infantry Regiment will be made by O.C. 150th. Army Brigade R.F.A. 150th. Brigade will use Officers' patrols to keep touch with the situation on his front, particularly with regard to the situation on the Corps Boundary East of the Canal.
9. Officers' patrols to obtain information East of the Canal within and at the Corps Boundary are also to be sent out by each of the 1st. and 2nd. Aust. F.A.Brigades.

P.T.O.

10. A visual station will be established by 150th. Brigade R.F.A. East of the Canal to communicate with a visual station to be established by the Right Group at about G.14.D.
11. ACKNOWLEDGE. 

Alec M. Forbes
Major.
Brigade Major, 1st Aust. Div. Arty.

DISTRIBUTION.

As for 1st. Aust. Div. Arty. Instruction
no. 15, plus 117th. American Infantry Regiment.

SECRET.

Appendix No. 50

Copy No. 21

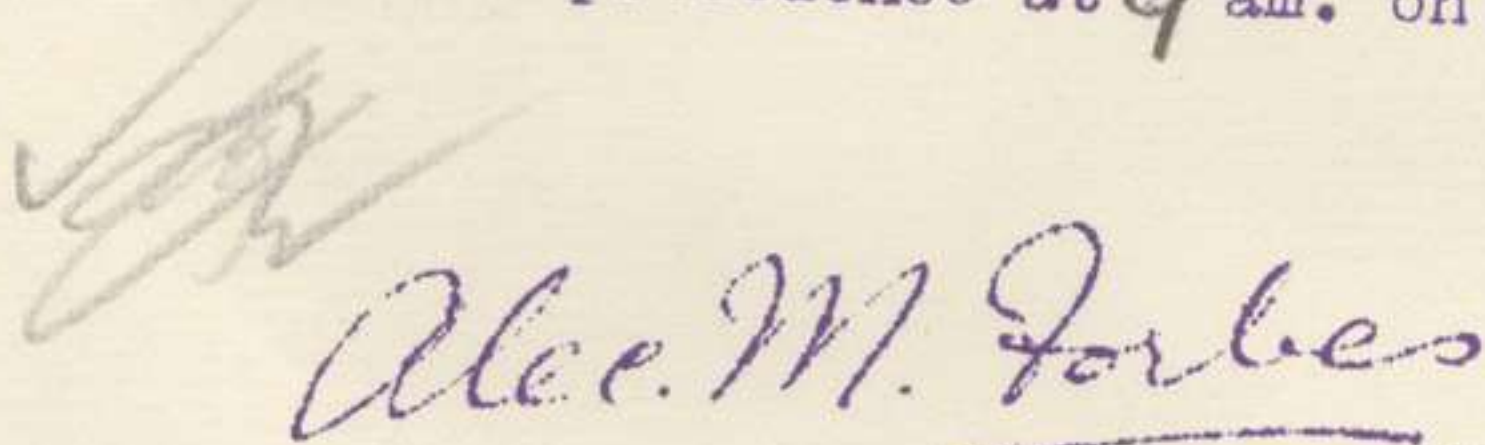
FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

INSTRUCTION NO. 17.
Series 6.

27th September 1918.

reference. Map attached (Brigades only).

1. Four main roads are being developed for traffic by the C.E. Aust. Corps.
2. These roads are coloured on the attached map respectively BLACK, RED, YELLOW and BLUE. They will be respectively marked on the ground by sign boards painted in the same sequence of colours.
3. The BLACK and RED roads (the two in 30th American Div. Area) run as follows :-
BLACK ROAD. HAMELET - ROISEL - HERVILLY - HESBECOURT -
VILLERET - BELLICOURT - N. of NAUROY - JONCOURT.
RED. ROAD. MARQUAIX - ROISEL - TEMPLEUX - HARGICOURT -
BELLICOURT - A.24.C.9.3 - B.25.D.2.5 -
B.25.D.60.95.
4. No traffic of any description will be permitted on any of these roads East of the Start Line until after 9 am. on Zero day.
5. The roads West of the Start Line will not be used at all by artillery for ammunition supply or any other purpose, after Zero hour, except by 150th Brigade R.F.A. as detailed in Instruction No. 16 Series 6.
6. No transverse crossing of any of these roads, from North to South, or vice versa, will be permitted on Zero day, except for single vehicles or single tanks or small bodies of troops. All North and South traffic must give way to, and avoid blocking, all East bound traffic.
7. Any of the Artillery detailed to support the 117th American Regiment which requires to move East of the Canal (i.e., 150th brigade R.F.A.) will have precedence at 9 am. on the BLACK and BLUE roads.
8. ACKNOWLEDGE.


Major.
brigade major. 1st Aust. Div. Arty.

Distribution.

Issued to all recipients
of 1st Aust. Div. Arty.
Instruction No. 15.

FIRST AUSTRALIAN DIVISIONAL ARTILLERY.

INSTRUCTION NO. 18.
Series 6.28th September 1918.1. SYNCHRONIZATION.

An Officer from D.A.H.Q. will visit Group Headquarters with a synchronized watch today, 28th September, at the following hours :-

RIGHT GROUP. 1.30 pm.
 6 pm.

LEFT GROUP. 2 pm.
 6.30 pm.

Group Commanders will arrange for an Officer from each Brigade to be at Group Headquarters at these hours and to bring two watches.

G.O., 6th Aust. Army F.A. Brigade will send an Officer to Right Group Headquarters.

2. DETACHED BATTERY.

"B" Battery, 84th Army brigade R.F.A. (major BROWN commanding) will be placed under the command of the G.O.C., 5th Cavalry Brigade from 11 am. on "Z" day. Instructions have already been given G.O.C., B/84 as to reporting to G.O.C., 5th Cavalry brigade for instructions.

3. ACKNOWLEDGE.

Alec. W. Forbes
major.
brigade major. 1st Aust. Div. Arty.

Distribution.

As for 1st Aust. D.A. Instruction No, 17.

SECRET

Copy No. 2.....

LEFT GROUP, 1st. AUST. DIV. ARTILLERY

ORDER NO. 3.

Headquarters
26.9.18.Reference 1st/ Aust. Div. Arty. Instructions No. 7 Series 6
and trace attached thereto.1. Para. 4. Areas as follows are allotted,-M.)
N.)
Q.)

Left Sub-group.

P.)

Left Sub-group 250 rds. Gas and 100 rds. H. E.
12th. Army Brigade Aust. F. A. 250 rds. Gas and
100 rds. H.E.

O.

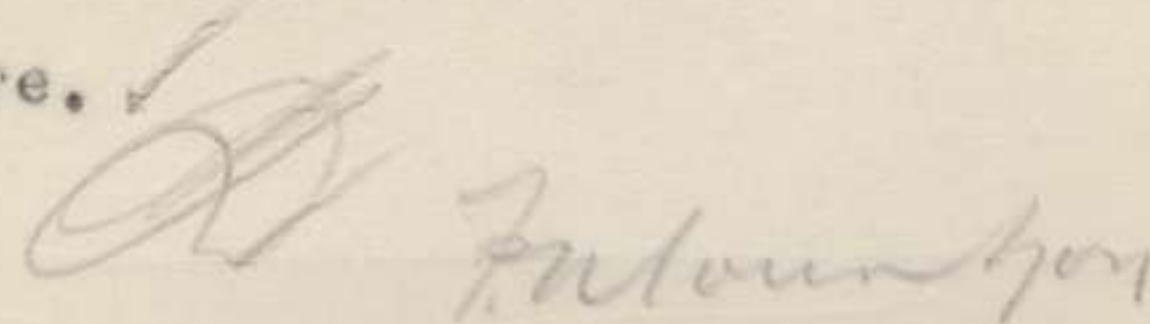
12th. Army Brigade Aust. F. A.

2. Para. 10. Brigades will be synchronised by Phone on receipt of ~~the~~
time from 1st. Aust. Div. Arty.

3. 65th. Army Brigade R. F. A. being out of range cannot take part.

4. Ammunition up to 340 Rds. ABB per Battery is available at Dump
K.10.c.10.10 and is to be drawn on the 26th. inst.

5. ACKNOWLEDGE by Wire.



Lieut.

A/Adjutant, Left Group, 1st. Aust. Div. Arty.

Distribution -

Copy No.	1	1st. Aust. Div. Artillery
	2	Left Sub group.
	3	65th. Army Brigade R. F. A.
	4	Inf. Regiment.
	5	Inf. Battalion.
	6	File.
	7	Spare.

LEFT GROUP, 1st. AUST. DIV. ARTILLERY.

ORDER NO. 4.

Headquarters
26.9.18.

Reference 1st. Aust. Div. Arty Instructions No.10 Series 6.

1. Para 1

(a) Lanes for Harassing Fire for 18 pdrs. will be :-

Lane 1.	Northern Boundary	E/W Grid Line	through A. 27. Cent.
	Southern Boundary	" " "	" A. 27. d. 00. 00.
Lane 2	Northern Boundary	" " "	" A. 27. d. 00. 00.
	Southern Boundary	" " "	" G. 3. Central.
Lane 3.	Northern Boundary	" " "	" G. 3. Central.
	Southern Boundary	" " "	" G. 3. d. 00. 00.
Lane 4.	Northern Boundary	" " "	" G. 3. d. 00. 00.
	Southern Boundary	" " "	" G. 9. Central.

(b) Lanes are allotted to Brigades as follows:-

~~xxxxx~~

4th. Aust. F. A. Brigade - Lane 1.

5th. Aust. F. A. Brigade - Lane 2.

65th. Army Brigade R. F. A. - Lanes 3 & 4 to a depth of 1250yds.
East of Infantry "Jumping Off Line".12th. Army Brigade A.F.A. - Lanes 3 & 4 from a depth of 1250yds
East of Infantry "Jumping Off Line".
to 2500 yds. East of "Jumping Off
Line".(c) Brigades will be responsible for Harassing Fire in their own
Lanes on the Lines laid down in Para. 1, Sub-paras (d) (e) & (f)
of abovementioned Instructions.2. Expenditure.Attention is directed to 1st. Aust. Div. Arty. , Instructions No.8
Series 6.3. ACKNOWLEDGE by wire.*[Signature]*

Lieut.

A/Adjutant, Left Group, 1st. Aust. Div. Artillery.

Distribution -

Copy No.	1	1st. Aust. Div. Arty.
	2	Right Group.
	3	4th. Aust. F. A. Brigade
	4	5th. Aust. F. A. Brigade
	5	65th. Army Brigade R. F. A.
	6	11th. American Inf. Regt.
	7	File.

LEFT GROUP, 1st. AUST. DIV. ARTILLERY

ORDER NO.5.

Headquarters
27.9.18.Reference 1st. Aust. Div. Arty. Instructions No.10 Para.2

1. Battle positions will be occupied as laid down in abovementioned Para

(a) Left Sub-group under arrangements to be made by C.O.,
Left Sub-group.(b) 65th. Army Bde. R.F.A. under arrangements to be made by C.O.,
65th. Army Bde. R. F. A.

(c) 12th. Army Bde. A.F.A. under orders to be issued from this H.Q.

2. Attention is drawn to sub-paras (b), (c) & (d), of the aforesaid Para

Reference 1st. Aust. Div. Arty. Instructions No.13 .

3 Lanes are allotted as follows :-

(a) 2 How. Batteries of) Lanes detailed under '1,2 & 3' of
Left Sub-group.) Para.3 of Instructions No.13.(b) 112th. How. Bty. Lanes detailed under '4' of Para 3.6
same (4 hows) of Instructions 13.

4. Attention is drawn to Para 4 of last mentioned Instructions.

5. ACKNOWLEDGE by Wire.

W. J. H. H. H.

Lieut.

A/Adjutant, Left Group, 1st. Aust. Div. Artillery.

Distribution -

Copy No.	1.	1st. Aust. D. A.
	2. ✓	Left Sub-group.
	3	65th. Army Brigade R. F. A.
	4	4th. Brigade Aust. F. A.
	5	5th. Brigade Aust. F. A.
	6	118th. American Inf. Regt.
	7.	File.

LEFT GROUP, 1st. AUST. DIV. ARTILLERY.

75

ORDER NO. 6.

Headquarters
27.9.18.

Reference 1st. Aust. Div. Arty Instructions No. 11 Series 'C'.

1. Para 3.

Liaison - The following Liaisons are detailed as follows:-

- (a) With 60th. American Inf. Brigade (Location L.10.a.2.5)
Lieut. Col. H.W. LLOYD C.M.G., D.S.O., 12th. Army Brigade
Aust. F. A.
- (b) With 119th. American Inf. Regt. (Location L.5.d.5.9)
Major D.R. McDONALD D.S.O., M.C., 65th. Army Brigade R.F.A.
- (c) With Battalions of the 119th. Amer. Inf. Regt. (Locations not yet ascertained).
 - (i) With Right Battalion - 1 Officer, 6 telephonists, 2 D/III Telephones, 2 Lucas Lamps, Wire, Tape etc.
 - (ii) With Left Battalion - Similar party.
 - (iii) Party for sub-para (i) is being arranged by C.O., 65th. Army Brigade R. F. A.
 - Party for Sub-para (ii) is being detailed by C.O., ~~12th. Army Brigade R. F. A.~~ Left Sub-group.

2. F.O.O. Party, will consist of the following -

- (a) 1 Officer, 3 Telephonists, 2 D/III Telephones, 2 Lucas Lamps wire tape etc. Party will be detailed by C.O. Left Sub-group
- (b) Similar party to be detailed by C.O., 12th. Army Brigade A. F.A.
- (c) Parties also detailed above will move forward as a composite body.
- (d) Personnel provided with C.W. Wireless Set will move forward with F.O.O. Party.

3. ~~Off~~ Officers going forward as Battalion Liaisons and F.O.Os will meet at Left Group Headquarters L.10.a.2.5 at 11 a.m. on the 28th. Inst. for the purpose of conferring regarding communications and the general scheme of their respective duties.

4. Attention is drawn to Paras. 3 & 4 Sub-paras (c) of 1st. Aust. Div. Arty Instructions No. 11 Series 'C'.

5. ACKNOWLEDGE by Wire.

Lieut.

A/Adjutant, 12th. Army Brigade Aust. F. A.

Distribution -

Copy No. 1	1st. Aust. Div. Arty.
2	Left Sub-group.
3	65th. Army Brigade R. F. A.
4	4th. Brigade Aust. F. A.
5	Inf. Brigade
6	File.
7	Spare.