

AWM4

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

Engineers

Item number: 14/7/32 Part 1

Title: Headquarters 1st Australian
Divisional Engineers

August 1918



AWM4-14/7/32PART1

CONFIDENTIAL.

ORIGINAL.
~~DUPLICATE.~~
~~TRIPLICATE.~~

184

Australian Imperial Force.

WAR DIARY

OF

1st. AUSTRALIAN DIVISIONAL ENGINEER HEADQUARTERS.

FOR

AUGUST, 1918



H. Q., 1st AUSTRALIAN DIVL. ENGINEERS.
No.....
Date.....

Signature of Officer compiling *R. Howling* Capt. & Adjt.,
1st. Australian Divisional Engineers.

Signature of Officer Commanding *W.A. Henderson* Lieut. Colonel,
C.R.E., 1st. Australian Division.

WAR DIARY

or

~~INTELLIGENCE SUMMARY~~

(Erase heading not required.)

Army Form C. 2118.

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

*1st Div Engs
August*

18

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
ST-SYLVESTRE-CAPPEL.	Aug. 1		C.R.E. went round forward area with Colonel MACAULAY, C.R.E. 29th. Division. Reports and maps completed for handing over. Adjutant round to Company Horse Lines and Forward Billets. Day fine and warm.	<i>Bll</i>
do	2nd.		C.R.E. and Adjutant remained in office all day. Field Companies all moved to near Staging Area. Weather very wet.	<i>Bll</i>
do	3rd.		Office and Staff all ready to move by 8.30.a.m.. 29th. Division Stores Officer arrived to take over. C.R.E. personnel moved with D.H.Q. personnel and transport with D.H.Q. transport. Arrived WARDRECQUES about 1.p.m.. Weather showery.	<i>Bll</i>
WARDRECQUES.	4th.		C.R.E. R.M.O. and Adjutant visited three Field Companies. C.R.E. inspected Horse Lines and harness and found all satisfactory. Fine warm day.	<i>Bll</i>
do	5th.		R.M.O. and Adjutant proceeded to ST OMER re entraining. D.E.H.Q. Staff moved out with 1st. Brigade Group at 11.p.m. to entrain at ST OMER. Dull, showery day.	<i>Bll</i>
	6th.		Entrained ST OMER 2.30 to 3.30 a.m.. Train moved out at 5.a.m.. C.R.E. proceeded by car to ALLONVILLE. D.E.H.Q. detrained at LONGPRE at 4.p.m., and moved out under 3rd. Brigade Group to VILLERS - SOUS - AILLY. D.E.H.Q. in touch with the C.R.E. by telephone from village of AILLY - LE HOUT - CLOUCHER. Weather fine.	<i>Bll</i>
ALLONVILLE.	7th.		D.E.H.Q. transport moved out at mid-day with all gear for ALLONVILLE. Personnel marched to CONDE and embussed with 3rd. Brigade group at 9.p.m. arriving at ALLONVILLE at mid-night. Weather fine and warm.	<i>Bll</i>
do	8th.		Operations of Australian Corps in front of VILLERS BRETONNEUX commenced. Advanced D.E.H.Q. to be established at VILLERS BRETONNEUX. C.R.E., Adjutant and part of Office Staff moved forward at 2.p.m.. Operations progressing well. All Field Company O.Cs. reported at ALLONVILLE during the morning to D.E.H.Q.	<i>Bll</i>

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(Erase heading not required.)

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
VILLERS - BRETONNEUX.	9th.		Remainder of D.E.H.Q. personnel moved to VILLERS BRETONNEUX. O.Cs. 1st. & 2nd. Field Companies reported at Headquarters VILLERS BRETONNEUX - 3rd. Field Company moving with 3rd. A.I. Brigade. Rear D.H.Q. moved to BLAGNY TRONVILLE. C.R.E. and Adjutant remained in Office all day. Operations still proceeding well. Company pontoons dumped near D.E.H.Q. and guard established on same. Day fine and warm.	BdH
do	10th.		Whole of D.E.H.Q. established at VILLERS BRETONNEUX. C.R.E. forward - Stores Officer inspecting Dumps and Stores generally. Adjutant remained in office. Field Companies with Brigades - subject to orders from C.R.E. Day fine and warm.	BdH
do	11th.		C.R.E. proceeded to BAKONVILLERS re proposed forward headquarters. Adjutant went round three Field Companies and Dumps. Day fine, very dry and dusty. Enemy counter attacks - advance much slower.	BdH
do	12th.		C.R.E. forward to Field Companies in afternoon. Major SAVAGE, O.C., 3rd. Field Company to D.E.H.Q. during morning re works. Engineers and Pioneers assisting infantry to dig in temporarily - otherwise all engaged on reconnaissance work and water supply. Day fine & warm.	BdH
do	13th.		C.R.E. in office all day and at D.H.Q.. Adjutant forward to Companies. Orders issued to Companies, re Division moving out. Preparing handing over reports. Day fine and warm.	BdH
do	14th.		Relief by 4th. Division delayed and move out by 1st. Division put off indefinitely. C.R.E. and Adjutant in office all day. Day fine and warm. No particular action on the front.	BdH
do	15th.		Lieut. Colonel DYER, C.R.E., 4th. Division called re taking over. Orders received from D.H.Q. to move on the 16th. instant to CORBIE.	BdH
FOUILLOY.	16th.		D.E.H.Q. moved out from VILLERS BRETONNEUX at 9.30.a.m. and proceeded to FOUILLOY adjoining CORBIE, taking over billets evacuated by 4th. Division C.R.E. Field Companies bivouaced along the SOMME. Day fine and warm.	BdH

WAR DIARY

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~~INTELLIGENCE SUMMARY~~

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
FOUILLOY.	17th.		C.R.E. visited three Field Companies with R.M.O.. Companies resting and cleaning up. Day fine and warm.	Bll
do	18th.		C.R.E. remained in office. Adjutant proceeded to three Field Companies. During the evening Adjutant to Corps.	Bll
do	19th.		G.O.C., 1st. Australian Division inspected the three Field Companies. C.R.E. and Adjutant were present at inspection which was held as near to Company billets as possible. General turnout satisfactory. Day fine and warm.	Bll
do	20th.		Orders received re pending resumption of offensive on Corps Front. D.E.H.Q. to move forward for the operation. C.R.E. visited proposed site. Weather fine and warm. Quiet on the Corps Front.	Bll
do	21st.		C.R.E. remained in office all day. Adjutant visited Field Companies also to forward position and dumps in the afternoon. All Field Companies moving with their corresponding Brigades. Day fine, weather hot.	Bll
Q.13.A.	22nd.		D.E.H.Q. closed at FOUILLOY at 1 p.m. and all personnel moved forward to new position at Q.13.a. (sheet 62 D.). Office opened at forward position at 3 p.m. Accommodation poor but Office for Orderly Room was in position ready for occupation. Adjutant forward to Companies and Pioneers in the afternoon. Fine hot day.	Bll
do	23rd.		Operations commenced at 4.45 a.m. and progress ^{ed} well. Field Companies cooperating with corresponding Brigades. Adjutant to Forward Field Company positions in afternoon. All objectives gained and Field Companies working satisfactorily. Fine hot day.	Bll
do	24th.		C.R.E. to Forward Area whole day. Everything satisfactory and front quite. Not much work done or required on consolidation as there is every indication of pushing further forward. Fine hot day.	Bll

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or
~~INTELLIGENCE SUMMARY.~~

(Erase heading not required.)

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Q.13.A.	25th.		C.R.E. and Adjutant remained in camp all day. Colonel MATHER, C.R.E. 5th.Australian Division called during the morning. Orders received in evening that this Division is being relieved by the 2nd. and 5th. Australian Divisions. Preparing handing over reports and maps of the area with all information. Weather fine and warm. Showers in the evening.	<i>Bll</i>
do	26th.		C.R.Es. Office closed at Q.13.A. at mid-day and re-opened in FOUILLOY at 2 .pm. in same billets as previously occupied. C.R.E. remained behind to see incoming C.R.E. - Major REID acting C.R.E. 2nd.Australian Division. Day fine and warm.	<i>Bll</i>
FOUILLOY.	27th.		C.R.E. and Adjutant remained in office all day. All three Field Company Commanders called in during the day. Weather fine and warm.	<i>Bll</i>
do	28th.		C.R.E. in office all day. Adjutant to M.T.Company, re box car. Day dull - few showers.	<i>Bll</i>
do	29th.		Two lorries report from Corps for transport duty in the event of a further advance by Division. C.R.E. in office all day. Adjutant to Army Bridging Park, LONGEAU. Day fine and warm.	<i>Bll</i>
do	30th.		Adjutant with party of Officers and N.C.Os. from each Field Company visited Bridging Park at LONGEAU. C.R.E. to Educational Scheme conference at 3rd.A.I.Brigde. Day fine and warm.	<i>Bll</i>
do	31st.		C.R.E. to forward area during the morning. Adjutant remained in office all day day. C.R.E. inspected D.E.H.Q. personnel, quarters and lines in the afternoon. Dull day - odd showers.	<i>Bll</i>

W.A. Henderson Lieut.Colonel,
C.R.E., 1st.Australian Division.

18

WAR DIARY *Appendix*OF
1 st. AUSTRALIAN DIVISIONAL ENGINEER HEADQUARTERS.AUGUST. 1918.

FOR

AUGUST 1918.*(ORIGINAL.)***LIST OF APPENDICES.**

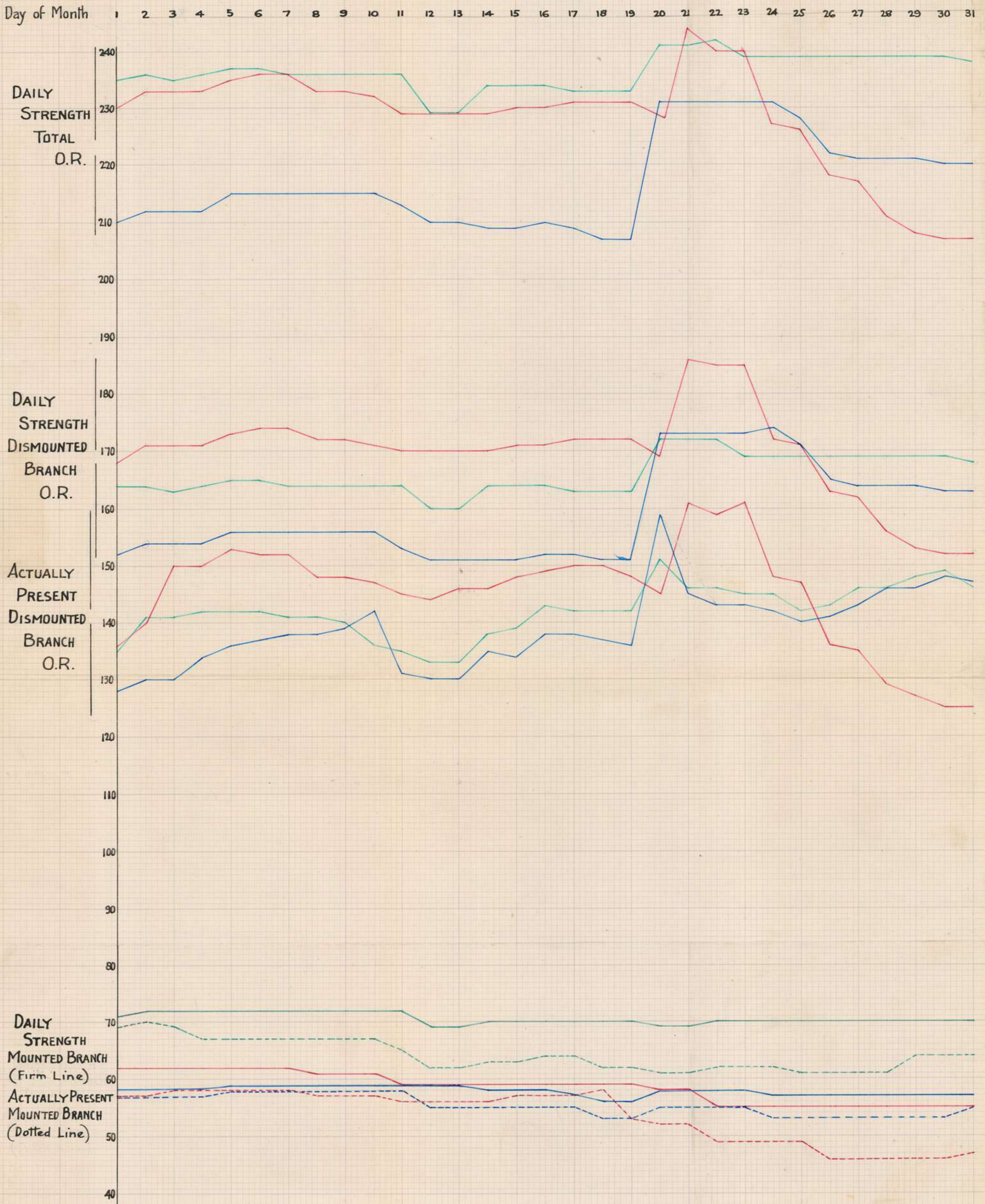
No.	Subject.
1.	Graph showing Strength.
2.	SYNOPSIS.
3.	RECONNAISSANCE REPORTS No. 1 to 9.
4.	OPERATION MAP. 8/8/1918.
5.	do do. 22/8/1918.
6.	COMPANY TRAINING PROGRAMME.
7.	DAILY WORKS REPORTS. 13/8/18 - 14/8/18-24/8/18- 25/8/18.
8.	HANDING OVER REPORTS.
9.	MONTHLY STATEMENT OF CASUALTIES.
10.	WEEKLY EMPLOYMENT AND LOCATION REPORTS.
11.	EXTRACT FROM DIVISIONAL ORDER No. 21.
12.	EXTRACT 1st. AUSTM. DIV. BATTLE INSTRUCTIONS. No. 5.
13.	1st. AUST. DIV. ENGINEER INSTRUCTIONS. No. 1 to 4.
14.	HANDING OVER REPORT. 5th. AUST. DIV. to 1st. AUST. DIV.
15.	MISCELLANEOUS CORRESPONDENCE AND ORDERS AS SUMMARISED.

1ST AUSTRALIAN DIVISION FIELD ENGINEERS

APPENDIX I 6

GRAPH Showing Strength of Companies Etc
 1ST Coy = GREEN 2ND Coy = RED 3RD Coy = BLUE

FOR MONTH OF AUGUST 1918



1st MONTH of August 1918

1st AUSTRALIAN DIVISION FIELD ENGINEERS

GRAPH showing Strength of Company E
1st Co. Green 2nd Co. Red 3rd Co. Blue

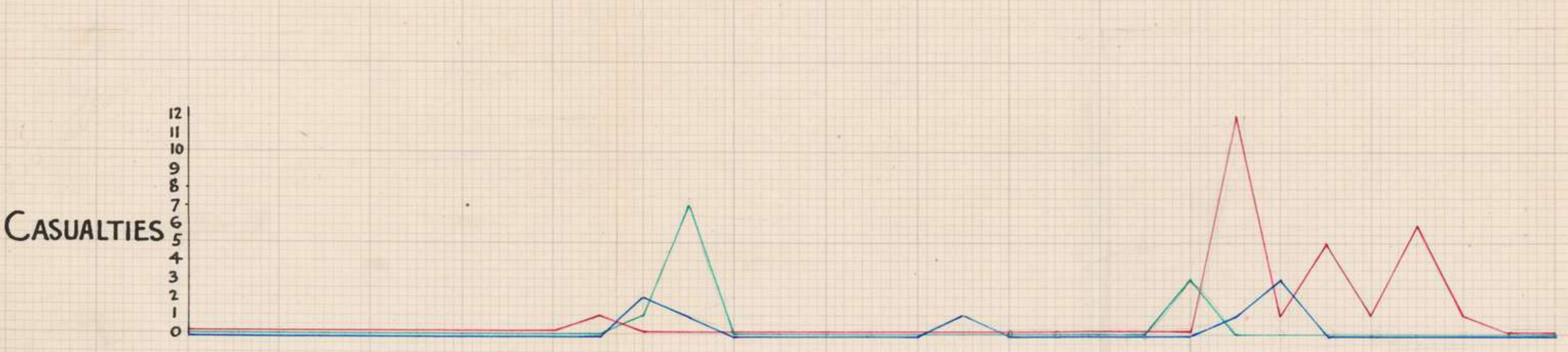
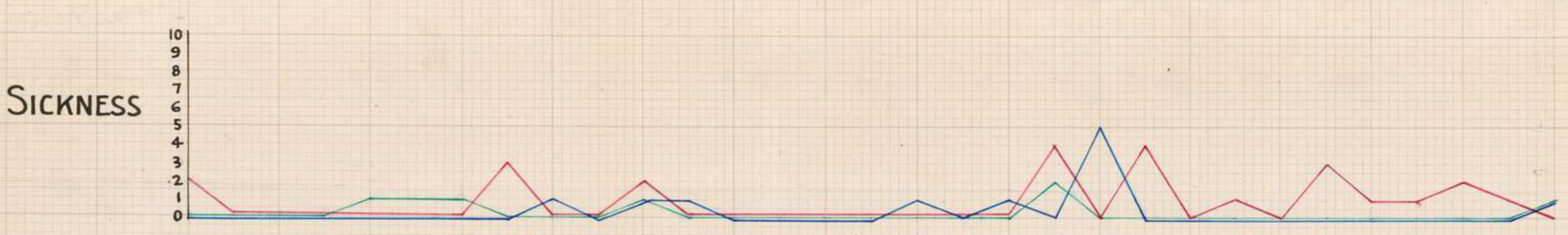
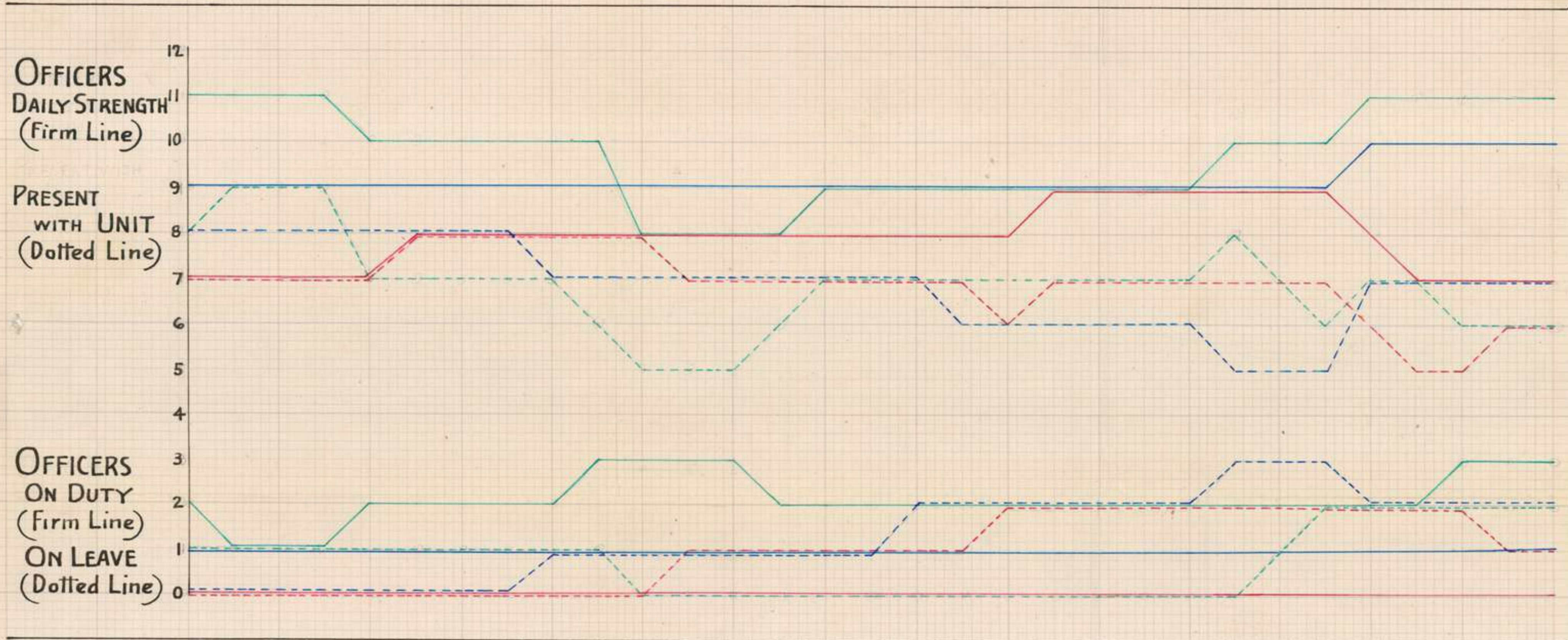
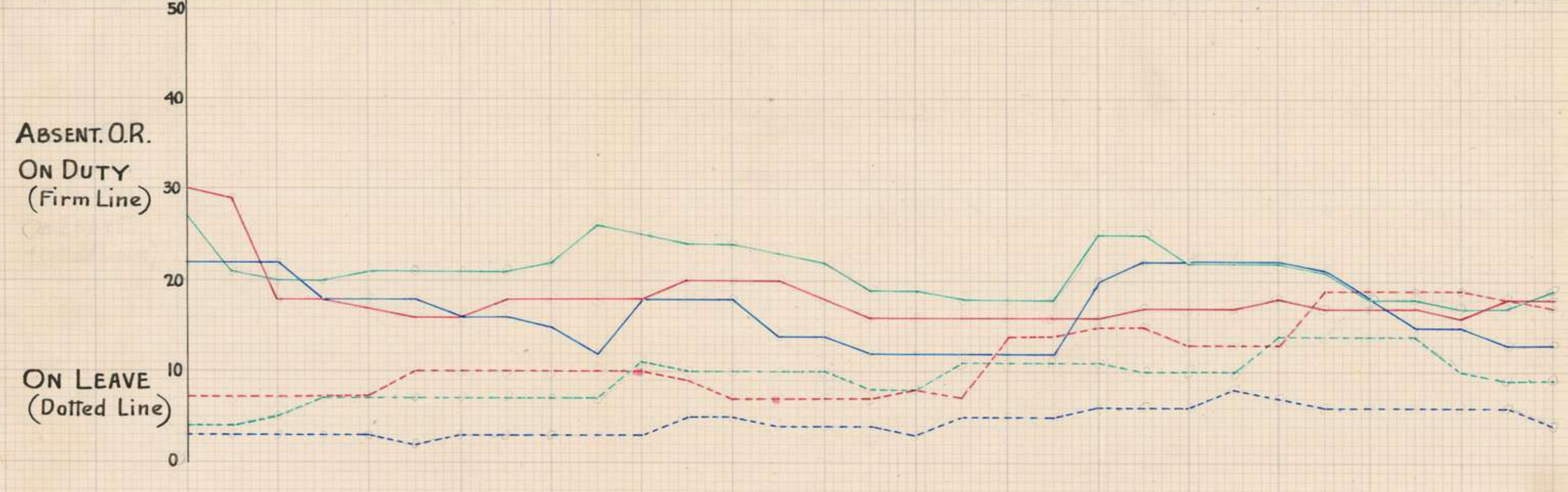
Appendix
Original



1ST DIVISION AUSTRALIAN ENGINEERS
 GRAPH Showing Particulars Re Strength of Companies Etc
 1ST Coy = GREEN 2ND Coy = RED 3RD Coy BLUE

FOR MONTH OF AUGUST 1918

Day of Month 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

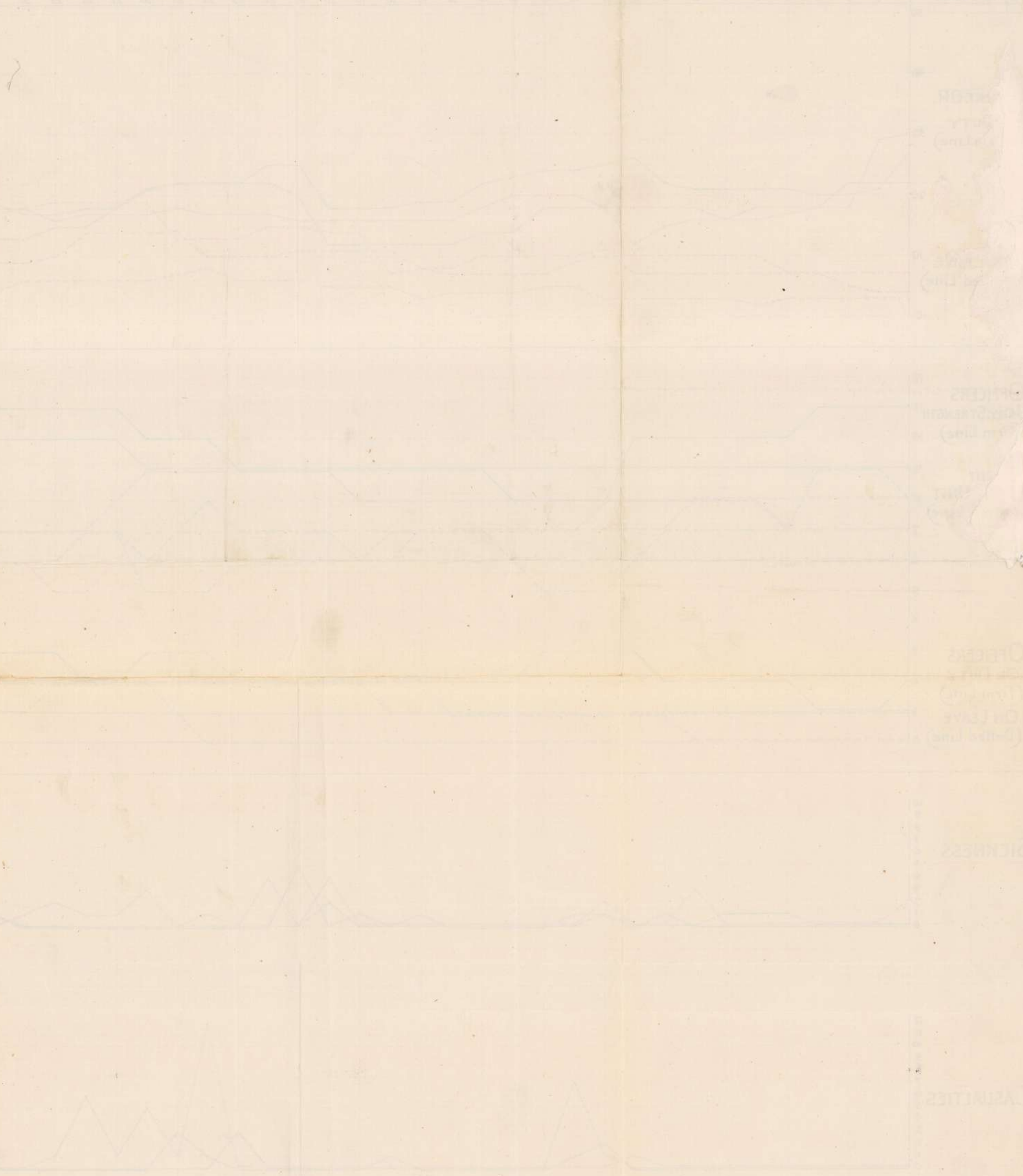


Appendix 1.

Appendix 1.

For Month of August 1918

GRAPH showing particulars of strength
of Coy. Green Spt Coy. 3rd Coy. Bn.



S Y N O P S I S.Month of August, 1918.Appendix
Appendix H
Original

8

At the beginning of the month the Division was relieved in the STRAZEELE Sector by the 29th. British Division, and on relief moved by stages to the entraining points ST OMER and ARQUES, where they entrained to proceed south to rejoin Australian Corps.

Throughout the move Field Companies moved and entrained with their respective Brigade Groups. D.E.H.Q. likewise being attached to the 1st. Brigade Group.

The C.R.E. travelled by car to the new D.H.Q. at ALLONVILLE.

On detraining at BONGPRE on the 6th. instant the 1st. Brigade were embussed in all available busses and sent up to join the 4th. Australian Division for the pending operations. D.E.H.Q. then became transferred to the 3rd. Brigade Group and were billeted for the night at VILLERS - SOUS - AILLY some considerable distance from D.H.Q. which was established at ALLONVILLE.

D.E.H.Q. personnel marched to CONDE on the 7th. instant and embussed with the 3rd. Brigade Group in the evening - the transport having moved off in the morning. Finally D.E.H.Q. was established complete at ALLONVILLE on the 8th. instant, the day the offensive commenced.

As the operations were successful D.H.Q. moved up to VILLERS BRETONNEUX on the afternoon of the same day and they remained there till the 16th. instant during which period the Division continued the offensive until relieved by the 4th. Australian Division. On relief D.H.Q. moved to FOUILLOY where they were billeted during the time the Division were out of the line.

On the 22nd. instant D.H.Q. moved forward to Q.13.A. (sheet 62D.) as the Division were to carry out a further operation. This operation was completely successful and the Division was then relieved by the 2nd. and 5th. Australian Divisions. D.H.Q. again moved back on the 26th. instant to the billets they had previously occupied in FOUILLOY.

As compared with recent months this month has been notable for the great amount of moving and changing of H.Q. but this is only to be expected from the nature of the operations. Throughout the moves D.E.H.Q. have invariably moved with the allotted transport of two G.S. Limbers, and the Maltese Cart for the R.M.O. only.

Field Companies moved and billeted as usual with Brigades and touch between C.R.E. and the Companies was maintained by means of runners. In this respect the necessity of some quick means of transport has been more than ever felt. Owing to the continual movement and the long distances involved the C.R.E. has been considerably handicapped in going round the Companies and Areas in which they were working.

WORKS.

For the first period in the line during the month the Field Companies were mainly engaged on reconnaissance work in the respective Brigade Areas. For this work pro formas (copies of which are attached) were issued to embody - Water supply, Roads and Tracks, Railways, Bridges, Accommodation and Material.

So far the Infantry had required no Engineer assistance, but amount as the advance steadied down and things became more settled a certain amount of digging in and defensive wiring was done in which the Field Companies assisted - also in transporting R.E. Material forward for same.

But this work was only of the nature of temporary local defences as a precaution before resuming the offensive.

On the second tour in the line the 1st. and 2nd. Field Companies provided Engineer personnel to move forward with the attacking waves of the 1st. and 2nd. Brigade Infantry in the operations. Their duties were to help consolidate the newly won positions and put them in a defensive ~~position~~ condition - also to reconnoitre the captured area.

In addition all Field Companies were engaged in constructing Brigade and Battalion Headquarters as required by their respective Brigades and in this respect the 3rd. Field Company particularly were employed.

Handing over reports have been mainly collective reconnaissance reports of the area with completed maps showing all useful information and dispositions.

R.E.MATERIAL.

The demand has been mainly for sandbags, barb wire, concertina wire, screw pickets, cupolas, and corrugated iron - i.e. material for defensive wiring and for accommodation. The supply has been ample at all times and there has been no trouble in keeping the material pushed forward as required.

Certain well stocked Hun Dumps were captured, such as at ROSIERES, WIENCOURT, LA FLAQUE and Q.27.C. in the first operation and later in the second operation at FROISSY, CANAL DUMP near FROISSY and at L.23.C. between BRAY and CAPPY.

All of the above seven dumps were well stocked with wiring material, assorted timber and mining sets.

ROSIERES was a particularly large dump but it was ultimately taken over by the Canadians.

The main Corps Dump was at ALLONVILLE as was the case prior to the offensive, but forward Corps Dumps were established at WIENCOURT and at Q.27.C. (MATHER DUMP) originally a Hun Dump. These dumps issued on the signature of Field Company Commanders.

In addition a Divisional R.E. Stores Officer had Divisional Dumps at WARFUSEE - ABANCOURT and BAYONVILLERS for the first period, and for the second period he established a dump at Q.17.C. (MORCOURT) and both dumps as usual issued to the Field Companies of the Division and Pioneer Battalion. For the operation on 23rd. stores such as :- Wire, Pickets, Picks and Shovels were carried forward in tanks and the material dumped well forward. Sapper personnel were detailed in connection with the work and they moved forward in the Supply Tanks and were thus fully acquainted with the exact localities of the small dumps established on the way.

On the 29th. instant two lorries as detailed from Corps reported to C.R.E. for R.E. Material transport duty.

Loads of material have been made up for these lorries and they are ready at very short notice to move forward and establish a Divisional Dump without delay.

PONTOONS.

For convenience in moving and to free the wagons for transporting R.E. material the Bridging equipment was often parked at some convenient spot, but owing to the proximity of the SOMME and the probability of having to bridge it the Field Companies at times had to hold their pontoons in readiness to move forward.

Generally speaking the latter arrangement should be adopted though there are conditions under which it is preferable to collect the Division's pontoons at one spot available for building a bridge of sufficient length for the average width of the river.

MEDICAL.

For the second period in the line the Field Companies were without the regular services of a R.M.O.. It was arranged for the R.M.O. to attend at 1st. Field Ambulance during the rushed period of the operations, but this did not materially effect the Field Companies as they could get what little medical attention they required at the nearest Field Ambulance, and in any case battle casualties did not in the ordinary course of events come under the R.M.O.

W. A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

No. of Location.	Depth of 'billet' to 'if any'	Depth of 'Water'	Estimated Quantity of water.	If pump or Windlass in position	If recently in use.	Necessary Repairs.	Remarks.
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No. of billet will be of assistance in locating and indentifying wells in towns and villages.
 Remarks to include - condition of water and well, particulars as to samples, general.

ROADS AND TRACKS.

Location.		Type.	Condition.	Traffic.		Necessary Repairs.	Remarks.
From	To.			Double or Single	Horse or Motor.		

Type - Metalled, earth track, plank, etc.
 Traffic - In stating nature of traffic the weather condition must be taken in to account.
 Remarks - To include location and description of bridges, culverts etc. on the road.

ACCOMMODATION.

Location.	Description.	Dimensions.	Accommodation.	Cover.	If occupied.	By Whom	Remarks
-----------	--------------	-------------	----------------	--------	--------------	---------	---------

Description - Deep dugouts, concrete pill box, shell proof, splinter proof, weather proof.

RAILWAYS.

Location.		Type.	Condition.	Necessary Repairs.	Rolling stock	Remarks.
From	To.				'if any.'	

Type - Standard gauge, metre gauge, decauville. Single or double track.
 Remarks - To include Location and description of any bridges the track may cross.

BRIDGES.

Location.	Type.	Description & Dimensions.	Estimated safe Load.	Condition.	Necessary Repairs.	Remarks.
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MATERIAL.

General reports will be forwarded to C.R.E. showing Location, Description, and estimated quantity of :-

- (i) R.E. Material. Such as Enemy Dumps etc.
- (ii) General material worth salvaging.

Note:- All reports to show date and time.

Handwritten signature

H.Q., Divisional Engineers, -
O.29.c.9.4.
1st. Australian Division,
10th. August, 1918.

G.E.,
Australian Corps,

1. Engineer Reconnaissance report No. 1. upon 1st. Australian Divisional Area forward of W.23.central to W.5.central, Reference map Sheet 62D S.E. 1/20,000.

2. WATER SUPPLY.

Three reports have been forwarded independently of this present report upon Water Supply HARBONNIERES and VAUVILLERS.

At X.26.d.5.5. there is a pumping plant with boiler and Worthington steam pump complete and is being put in working order. The present supply in tanks is about 20,000 gallons and the water is good.

3. ROADS.

(a) HARBONNIERES-LIHON road in good order suitable for all traffic.

(b) HARBONNIERES - FRAMERVILLE road in good order.

(c) Several good cross country tracks, all satisfactory during dry weather but will cut up when rain falls.

4. LIGHT RAILWAYS.

The Light Railway from W.10.b.5.9. to W.6.d.1.0. to X.21c.9.5. in good order except bent slightly at X.13.b.0.9. The following rolling stock is on the track at X.20.b. :-
Six (6) trucks - at W.10.b. :- one locomotive and eight (8) trucks.
HEAVY GAUGE TRACKS In good order.

5. R.E.DUMPS.

Small dump at X.7.d.9.2. with the following material:-
40 - 6' lengths of 18" gauge decauville rail.
50 duckboards but not in good order.
100 wooden stakes 3'6" long.

At X.5.a.7.2. there are 70 pieces of 6" x 6" timber 10' long.

Large dump at Railway Station - X.26.d. This contains R.E. Material of all descriptions also tools.

The following is an approximate of some of the material contained in the dump:-

TIMBER.

9" x 9" - 9,000 feet.	9" spars 600 feet.
9 1/2" x 3" - 33,000 feet	7" x 7" 5,000 feet.
7" spars 150 - 12' long.	6" spars 250 - 15' long.
6" spars 1,500 - 20' long.	5" spars 4,000 - 15' long.
6" x 6" - 3,000 feet.	6" x 2" - 5,000 feet.
14" x 9" - 2,000 feet.	6" spars 40 - 24' long.
12" spars 100 - 30' long.	9" x 9" - 2,500 feet.
15" x 12" - 500 feet.	9" x 1" - 25,000 feet.
9" x 4" - 4,500 feet.	4" x 4" - 2,000 feet.
1" x 1" - 3,000 feet.	2" x 1" - 2,500 feet.
9" x 2 1/2" 15,000 feet.	2" x 1 1/2" - 35,000 feet.

WIRE.

4,500 coils of barb wire.	1,810 coils plain wire.
800 " of wire netting.	400 coils French wire.

R.E.STORES.

3,500 duckwalks.	2,000 5' iron pickets.
600 long cork screw pickets.	350 barb wire rosettes.
800 straw fascines.	2,000 ordinary fascines.

/R.E. Material.

18

R.E. MATERIAL.

6 Malthoid huts in sections.
 250 rolls of camouflage.
 100 sheets elephant iron.
 350 medium cupolas.
 25 drums for windlass with
 framework.
 1,420 feet heavy rails.

16,000 mining sets.
 450 rolls of malthoid.
 150 coils of hoop iron.
 5 windlasses complete.
 2,000 feet 1/2" dia. round iron.
 2,000 - 30' long heavy rails.
 1,000 lengths R.S. Joists.

TOOLS.

6,000 shovels.
 3,000 picks.
 100 mallets.
 100 pick helves.

100 spades.
 13 wheel barrows.
 90 crow-bars.

RAILWAY MATERIAL ETC.

1,000 lengths of light rail 16 lbs.
 15 trucks. 60 C.M. gauge.
 6 Railway engines.

2,000 heavy 9' sleepers.
 64 trollies.
 6 large light railway trucks.

WORK SHOP.

Containing 1 Portable engine.
 1 milling machine.
 1 grindstone.
 18 German limbers.

2 iron lathes.
 1 blacksmith shop complete.
 1 drilling machine.

Foregoing is only an approximate list.
 An Engineer W.O. and 6 men have been placed in charge of the dump and
 a correct list of all materials in dump will be made and forwarded
 to Corps.

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

DISTRIBUTION:-

- Copy No. 1 to C.E., Aust. Corps.
- " No. 2 to G.S.O. 1.
- ✓ " No. 3)
- " No. 4) War Diary.
- " No. 5)
- " No. 6 File.

H. Q., 1ST AUSTRALIAN DIVL. ENGINEERS.	
No.	ES 491
Date	10/8/18

H.Q. Divisional Engineers,
1st. Australian Division.
11th. August 1918.

C.E. Australian Corps,

1. Engineer Reconnaissance Report No. 2, 1st. Australian Divisional area forward of W.23. Central. to W.5. Central. Reference Map Sheet 62, D.s.e.
2. WATER SUPPLY. Separate reports forwarded dealing with Water Supply.
3. ROADS and TRACKS. See attached.
4. LIGHT RAILWAYS. Light Railway from X.21.c.9.5. to X.22.b.4.6. in good order and can be used immediately for traffic.
The following rolling stock is on the track between X.21.d.3.3. and X.22.a.9.8.:-
10 - 9 ton bogie trucks,
2 - 1500 gallon Tank Trucks,
3 Small German Trucks.
The condition of track and rolling stock are such that track could be used at once. No tractors on this section of the line.
5. MATERIAL. At (Hospital) so marked on map at X.20.b.6.3. there is a limited supply of R.E. Stores as under:-

80 pieces 6'x4" Mining Sets,
10"x2½" 100'
6"x1" 400 lin. feet,

In Hut at approximately X.22.d.8.7. there are the following tools:-

30 pairs Wire Cutters,	80 Shovels (German)
3 Tracing Tapes,	3 Light Band Saws,
20 Cutting Axes,	6 Cross Cut Saws.
30 Picks,	

6. HUTTING.

- 6 Nissen Huts (5 in good order) at X.20.b.6.3.
- Hospital at X.21.c.9.4.
- 4 Nissen Huts
- 10 - 30'x18' galv iron structures,
- 12 - 60'x20' do do do
- 6 bell tents.
- 14 tents approx. 120'0" x 24'0"
- 12 " " 24'0" x 24'0"
- 6 timbered dugouts.
- 2,500 feet duck boarded tracks round hospital.
- 4 latrine buildings.
- 1 Fumigator.

7. GENERAL.

Aeroplane at approx. X.14.c.2.2. Boring plant tripod and windlass in good condition at X.22.d.6.6. Recent boring operations have been carried on by the enemy at this point and rods are about 40'0" down.

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

Distribution:-

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H. Q. 1ST AUSTRALIAN DIVL. ENGINEERS.	
No.	ES 491
Date	10/8/18

REPORT ON ROADS AND TRACKS.

H.Q.
1ST AUSTRALIAN
DIVL. ENGINEERS.
No. 81
Date: 11/8/18

Map reference.		Type	Condition	Traffic		Necessary repairs	Remarks.
From	To			Single or Double	Horse or Motor		
W.11.d.4.3.	X.29.a.0.6.	Metalled Road		Double	Motor	Small Shell hole at X.29.b.0.7.	Material for repairs at hand. Dead horse at Cross Roads X.28.b.5.7., should also be removed.
X.13.d.3.9.	X.8.b.5.3.	Metalled Road	Good	Double	Motor	From X.8.c.5.0. to X.8.b.4.2. needs 30 Limber Loads of bricks.	Material for repairs at hand.
W.18.b.7.8.	X.8.c.9.5.	Metalled Road	Good	Double	Motor	From X.8.c.8.5. to X.8.c.9.5. needs 15 limber loads bricks.	Material for repairs at hand.
W.20.b.6.5.	X.8.c.9.5.	Metalled road.	Good	Double	Motor	6 Small Shell Holes at W.14.d.6.0. need one limber load of bricks.	Material for repairs at VAUVILLERS.
Cross Rds.		Earth track	Good	Double	Motor in dry weather.	Nil	Additional dry weather tracks near Road.
W.12.a.9.5.	X.7.d.8.4.					Nil	do do
	X.13.d.9.5.	do	Good		do	Nil	do do
W.12.c.3.7.	X.1.d.0.4.	do	Good		do	Nil	do do
W.12.c.4.8.	X.1.c.2.1.	do	Good		do	Nil	do do
W.7.d.1.3.	X.8.b.5.3.	do	Good		do	5 Shell Holes from X.8.a.5.3. to X.8.b.5.3. Each needs 1 c.yd. of earth	
X.8.b.4.2.	X.14.b.4.4.					Nil	
X.14.a.3.8.	X.14.b.3.3.		Fair			Nil	Wet in parts. Additional dry weather tracks near road.

W.A. Henderson

Lieut. Colonel.
C.R.E.1st. Australian Division.

Appendix

III

15

C.E., Australian Corps,

1. Engineer reconnaissance report No. 3. 1st. Australian Divisional Area forward of W. 23. Central to W. 5. Central. Reference map Sheet 62D. S. E.

2. WATER SUPPLY.

See attached list of additional wells located.

A bore has been located at W. 24. b. 4. 5. 50. (on the left of the road 150 yards S. E. of old German Telephone Exchange). This appears to be a 4" bore and is fitted with a hand pump, it has been in continuous use and has given a good supply for the last two days.

Pumping Set at X. 26. d. 4. 5. has been run by the 2nd. Field Company for eight hours and pumped 12,000 gallons to Water Storage Tank.

Windlass Set at X. 25. b. 6. 3. has been put in order for personnel drawing.

Hand plunger set at X. 21. d. 0. 4. has been put in order.

The following water points have been established:-

For water carts at X. 26. d. 4. 5.

X. 26. d. 9. 0.

Horse water points at X. 26. d. 4. 5.

X. 26. d. 9. 0.

All of which are supplied by means of the pumping plant at X. 26. d. 4. 5.

3. ROADS AND TRACKS.

See attached list showing additional earth tracks at present suitable for Motor traffic in dry weather only.

4. LIGHT RAILWAYS.

Decauville track Report shows that the general run of Decauville track in the Area (vide. Map 62D S. E.) is in good order and only requires repairing at certain points, but the track shown running from X. 13. c. 3. 2. to X. 14. c. 1. 5. thence to X. 16. d. 3. 0. and from X. 20. b. 8. 3. to X. 21. a. 1. 9. does not exist. In squares W. 8. and 12 and X. 1. there is a certain amount of formation only.

1 Locomotive, Standard gauge, in good order attached to about 20 railway trucks, and about 20 trucks, some of which are filled with ballast are about 1,000 yards in front of ROSIERES

5. ACCOMODATION.

See attached list of accomodation.

W. A. Henderson

Lieut. Colonel,
C. R. E., 1st. Australian Division.

Distribution:-

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REPORT ON ROADS AND TRACKS.

Map reference.		Type.	Condition.	Single or double.	Traffic.		Necessary Repairs.	Remarks.
From.	To.				Horse or Motor.			
X.18.d. 1. 7.	X. 8.d. 2. 3.	Earth track.	Fair.	Double.	Motor in dry weather.		12 shell holes each needs 1 c.yard of earth.	Nil.
X.18.b. 7. 5.	X.21.d. 1. 4.	do	Good.	Double.	do		12 shell holes each needs 1 c.yard of earth.	Nil.
X.18.d. 3. 8.	X.14.b. 3. 8.	do	Fair.	Double.	do		4 shell holes in X.18.c. each needs 1 c.yard of earth.	Nil.
X. 7.d.90.35.	X. 8.c.90.90.	do	Good.	Double.	do		Nil.	Additional dry weather tracks near road.

W.A. Henderson Lieut. Colonel,
C.R.E., 1st. Australian Division.

H.Q., 1ST AUSTRALIAN DIVL. ENGINEERS.	No. <i>ENIS</i>	Date <i>2/8/18</i>
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Appendix

111
17

ACCOMMODATION

Location.	Description.	Dimensions.	Accommodation.	Occupied.	Remarks.
X.14.a.27.80.	Cellar.		80 men.		
X.14.a.33.80.	2 deep dugouts.	14'x4'x3'			1st of earth cover.
X.14.b.2.8.	3 brick cellars.		4 men each.		
X.16.a.2.6.	14 dugouts.				Iron roof 8' to 12' of earth covering.
X.13.d.9.2.	Weather proof shelter.		250 men.		
X.18.d.9.9.					
X.18.b.8.7.	Splinter proof shelter				18 beds, used as latrine.
X.15.d.3.9.	2 dugouts.		10 men.	Yes.	Used by A.S.C. 17" brick, 8" earth & pit props.
X.16.a.4.7.	Splinterproof. Field gun proof	10'x8'x5' 10'x9'x3'			4 1/2" cover. Buried, 1, 2, or 3 banks in each.
X.14.a.8.4.	Dugout.	10'x12'x3'			
X.14.a.7.6.	20 dugouts. Splinterproof				
X.13.d.4.7.	Dugout. Splinterproof.	10' x 12' x 3'			
F. 3.a.4.3.	Deep dugout.				no cover, well timbered. 15 banks.
F. 8.a.6.8.	Cellar & good dugout.			Yes.	End. V.A.S.C. H.C. 2 in each row filled with shell ammunition.
X.27.c.	4 rows of dugouts.				
X.28.d.5.9.	Deep dugout.		80 men.		
X.28.d.4.5.	3 cellars.		40 men.		
X.28.d.5.3.	Deep dugout.				20' cover. 15 banks.
X.28.a.1.6.	Dugout.			Yes.	End. H.C. 2. 24' cover. 6 entrances, partly banked.
F.18.d.2.8.	Deep dugout.	80 yards x 9' x 9'			4 entrances. 18' cover.
F.24.b.4.9.	Deep dugout.		80 men.		

W.A. Henderson

Lieut. Colonel,
C.S.A., 1st Australian Division.

H. Q.	
1st AUSTRALIAN DIVL. ENGINEERS.	
No.	E 2135
Date.	17/8/18.

REPORT OF WELLS.

11/8/19.

Location.	Village.	Depth of Water.	Quantity of Water.	If Pump or Windlass in position.	If recently in use.	Remarks.
X.14.a. 0. 4.	VAU VILLERS.	-	-	No.	Yes.	Water drawn by rope and bucket.
X.14.a.05.60.	do	-	-	No.	Yes.	Water drawn by rope and bucket.
X.13b. 99.60.	-	-	-	No.	Yes.	Water being drawn by rope and buckets.
X.15.d. 1. 9.	-	-	-	Yes (pump)	Yes.	Water used by 5th.Div. A.A.M.C. Trough attached 9' x 3' x 2'6".
X.14.a. 5. 7.	VAU VILLERS.	-;	-	do	Yes.	Water used by A.A.M.C.
X.14.a. 6. 6.	do	-	-	Yes (windlass)	Yes.	Water used by A.A.M.C.
X.25.b. 6. 2.	-	40 feet.	-	do	Yes.	Good water.
F. 3.a. 0. 8.	ROSSIERES.	-	-	Yes (pump).	-	Nil.
W.18.d. 8. 7.	-	-	-	Deep bucket pump.	Yes.	Good supply presumably from a bore.
X.20.b. 7. 3.	-	36 feet.	-	Yes (windlass)	Yes.	Well 3' dia. partly bricked.
X.21.d. 0. 4.	-	-	-	Yes two pumps	Yes.	Presumably bores. 1 pump in working order and produces a good supply.

Lieut.Colonel,
C.R.E., 1st. Australian Division.

18

Appendix I

III 19

3 20

H.Q. Divisional Engineers,
1st. Australian Division.
13th. August 1918.

C.E., Australian Corps;

1. Engineer Reconnaissance report No. 4, 1st. Australian Divisional Area forward of W. 23. central, to W. 5. central, Reference Map Sheet 62 D. S.E. and 62 C. S.W.

2. WATER SUPPLY. Attached additional list of Wells in the forward area. Sappers have been engaged on improving certain wells and water points.

3. Horse Water Troughs have been placed at:-

X. 25. b. 6. 3.	W. 24. b. 5. 8.
W. 18. d. 8. 7.	W. 28. b. 2. 5.
X. 14. b. 3. 5.	X. 15. d. 1. 9.

Also the troughing increased at X. 26. d. 4. 5. and X. 26. d. 9. 0., which points are reported in Report No. 3 of 12/8/18.

Approximately 40,000 gals. has been pumped by pumping set at X. 26. d.

3. ROADS AND TRACKS. See attached list.

4. ACCOMMODATIONS. See attached list of further accommodation located.

5. GENERAL. At Hospital at X. 21. c. there is a belt driven lighting set complete. cursory examination shows set to be in working order.
Set consists of :-

1 Single cylinder petrol engine 8 - 10 H.P.
1 Belt driven D.C. Generator 110 Volts, 58 Amps. 1400 Revs.
Switchboard complete with Ammeter, voltmeter, fuses, switches etc.

Small quantity of lighting material, lamps, cable, lampholders etc. are in engine house.

At approximately W. 24. b. 6. 5. there is a small lighting set mounted on a waggon. Some of the set has been used to light neighbouring deep dugouts and leads to same from the switchboard are still in existence. If magneto were supplied the set would be in working order. Particulars of set are:

1 Automobile type petrol engine Odel Make.
4 cylinders complete with radiator etc.
Magneto of engine is missing.
Generator is belt driven - 110 volts, 37 Amps (5 1/2 H.P.) 1250 revs.
Switch board - marble complete with voltmeter - ammeter - fuses and rheostat.
Approximately 40 10" lamp shades are also in waggon.

W. A. Henderson

Lieut. Colonel,

C.R.E., 1st. Australian Division.

Copy to 1st. Aust. Div. for information.

H. Q. 1ST AUSTRALIAN DIVL. ENGINEERS.	
No.	2235
Date	13/8/18

Max Deary

REPORT ON WELLS IN FORWARD AREA.

1st AUSTRALIAN
DIVISIONAL ENGINEERS.
No. *Embds*
Date *13.8.18*

18

Location.	Depth to Water.	Depth of Water.	Quantity of Water.	If pump or windlass in position.	If recently in use.	Remarks.
S.25.c.9.6.				Pump.		Pump broken.
S.26.a.0.0.				2 Pumps.		Water slightly dirty.
S.26.c.0.5.				Pump.		Pump broken.
S.26.c.4.1.				Pump in working order.		Water slightly dirty.
S.26.c.5.0.						Top of well blown in.
F.6.c.5.0.				Windlass at level crossing.		Water being used by troops.
F.5.a.9.9.				Pump.		do do
F.5.b.2.9.						Pond. 90 yds by 9 to 15 yds wide.
X.29.c.9.1.						Water suitable for horses.
						Pond 45 yds by 10 yds with smaller ponds in vicinity. Water suitable for horses.
X.28.b.2.5.						Water being used by troops.

REPORT ON ROADS IN LEFT BRIGADE SUB SECTOR.

Map Location.		Type.	Condition.	Traffic.		Necessary repairs and remarks.
From	To.			Single or double.	Horse or Motor.	
X.15.d.50.55	X.22.b.75.95.	Earth.	Poor.	Double.	Horse.	Nil. Not in use.
X.15.d.50.45.	X.22.d.90.90	Earth.	Fair.	Single	Horse.	-
X.16.c.20.05.	X.23.a.40.45.	Earth.	Fair .	Single .	Motor in dry weather.	-
X.21.d.80.05.	X.17.c.10.25.	Metalled road.	Good.	Double.	Motor.	-
X.28.b.15.65.	X.23.a.20.20.	Earth.	Poor.	Single.	Horse.	Shell hole at X.28.b.25.85. Needs 2 c.yards earth. Road is only used between X.28.b.15.65. to X.22.d.4.1

Appendix

21

ACCOMMODATION IN FORWARD AREA.

Location.	Accommodation.	Size.	Cover.	If occupied.	By whom.	Remarks.
XxRx						
S.26.c.0.6.	8 Men.	-	4' earth.	No.	-	
S.26.c.2.4.	30 Men.	Shelters.	Layer 60lb rails.	No.	-	
S.26.c.2.3.	14 Men.	do	2' earth & logs.	No.	-	
S.26.c.5.1.	18 men.		5' brickbats.	No.	-	Cellar at crossroads.
S.26.c.6.0.	21 Men.	Shelter.	4 to 5' brickbats.	No.	-	
A.2.a.7.8.	12 Men.	-	6' brickbats	No.	-	Strengthened cellar.
F.5.b.2.9.						Recent German camp including horselines, and numerous small board or tin shelters.
X.29.c.7.2.	6 men.	-	Pill box.	Yes.	Arty.	
X.29.c.7.2.						Recent German camp, including abbatoir, and numerous small board or tin shelters.
X.28.b.4.6.						Horse lines and numerous small hutment

Appendix

1ST AUSTRALIAN
DIVL. ENGINEERS.

No. 5743

Date 13.8.41

22

H. Q.
1ST AUSTRALIAN
DIVL. ENGINEERS.
No. *EW 35*
Date *14.8.18*

H. Q. Divisional Engineers,
1st. Australian Division.
14th. August 1918.

C.E. Australian Corps

1. Engineer Reconnaissance Report No. 5., 1st. Australian Divisional Area forward of W.23.central, to W.5.central, Reference Map Sheet 62 D. S.E. and 62 C. S.W.

2. WATER SUPPLY. Well at X.21.d.0.4. improved, pump removed and under repairs.

Horse Troughs increased at X.18.d.8.7. and X.25.d. 4.5.
New troughs placed at X.14.c.0.5.

Water Bottle Points fixed at X.26.d.4.5. X.25.b.6.3.
X.14.c.0.5. X.14.b.3.5.

Water Bottle Points in preparation stage at W.18.d.8.7. and X.21.d.0.4.

At pumping Station- pumped 40,000 galls. Supplied 2,000 horses and 30 water carts.

Water storage-6,000 gallons are at X.21.d.9.0. for D.A.Q.M.G. 1st. Australian Division.

3. ROADS AND TRACKS.

Location.	Type	Condition	Traffic		Necessary repairs.	Remarks.
			Double or Single.	Horse or Motor.		
From X.17.c.10.25. to X.17.b.05.45.	Metalled	Good	Double	Motor	-	-
X.10.d.65.00. to X.23.b.30.90.	do	Good	do	do	-	-
X.23.a.20.20. to X.17.c.60.60.	Earth	Fair	Single	Horse	-	-
X.8.c.6.6. to X.8.c.9.6.	Metalled	Good	Double	Motor	2 Shell Holes at X.8.c.85.60. needs 2 c.yds. brick.	Material at hand.
X.8.c.2.4. to X.8.c.7.3.	Metalled	Good	Double	Motor	2 Small Shell holes. Needs 1 c.yd. brick.	Material at hand.
X.13.b.95.40. to X.14.a.0.1.	Earth	do	Single	Motor in dry weather	-	-

W.A. Henderson

Copy,
1st. Australian Division
(for information)

Lieut. Colonel.
C.R.E. 1st. Australian Division.

Mar Derry

SECRET.

6
Copy No.

H.Q., Divisional Engineers,
1st. Australian Division,
16th. August, 1918.

18

1. Engineer Reconnaissance Report No. 6., 1st. Australian
Divisional Area forward of W.23. Central to W.5. Central,
Reference Map Sheets 62D S.E. and 62C S.W. -

2. WATER SUPPLY.

Horse Troughs established at:-

X.15.a.1.6.

X.20.b.7.3.

F. 6.c.4.0.

Water Bottle Filling Stand - W.18.d.8.7.

3. ACCOMMODATION. As per attached list.

W.A. Hudson Lieut. Colonel,
C.R.E., 1st. Australian Division.

DISTRIBUTION:-

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" No. 5.) War Diary.
" No. 6.)

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.
No. *E2435*
Date *16/8/18*

Appendix

24

Left Brigade Sub-Sector.

Location	No.	Dimensions in feet.	Cover	Condition.	Accommodation.		Remarks
					Men.	Horses.	
X.21.a.	1	8x10x6	D.E.	Good	5		
	2	6x7x6	do	do	3		
	3	6x6x6	do	do	3		
	4	9x4x7	do	do	4		
	5	24x7x6	do	Fair	10		
	6	20x6x6	do	do	10		
	7	18x6x6	do	do	6		
	8	6x6x6	do	Good	2		
	9	15x6x6	do	do	7		
	10	6x6x6	do	do	3		
	11	6x6x6	do	do	3		
	12	12x6x5	do	do	6		
	13	30x7x5	do	do	12		
	14	6x12x6	do	do	6		
	15	11x8x6	Corr.	do	7		
	14	6x12x6					
	16	15x8x6	D.E.	do	7		
	17	20x7x6	Corr.	do	10		
	18	27x7x6	do	do	12		
	19	6x6x6	D.E.	do	2		
20	18x7x7	do	do	8			
X.16.a.	1	279x8x7	Corr.	Bad.	-	50	
	2	10x8x6	M.	Fair.	5	-	
	3	278x8x7	Corr.	Good.	-	50	XXXXXXXXXX.
	4	12x8x7	do	Fair.	6	-	Gable roof.
	5	5x5x7	do	Good.	1	-	
	6	8x10x6	M.	Good.	2	-	
X.15.b.	1	8 x 10x6	Sleepers.	Good.	2		
	2	12 x 8x6	Corr.	Fair.	6		
	3	20x12x6	Corr.	Good.	10		
	4	10x10x6	Corr.	Good.	5		
	5	20x12x6	D.E.	Good.	10		
	6	20x15x7	M.	Good.	5		
	7	6x 8x5	Timber.	Good.	3		
	8	10x 8x7	Flat iron.	Good.	5		
	9	25x12x7	Corr.	Fair.	10		
	10	10x 8x5	Corr.	Good.	5		
	11	5x 8x6	Timber	Good.	4		
	12	6x 4x6	D.E.	Good.	3		
	13	10x12x7	M.	Fair.	-		Work shop.
	14	15x 8x6	M.	Fair.	7		
	15	15x10x6	M.	Good.	5		
	16	10x 7x6	Corr.	Good.	3		
	17	6x 6x6	Corr.	Good.	3		
	18	15x 8x6	Cupola.	Fair.	7		
	19	8x 6x5	Corr.	Good.	4		

Note:- D.E.=Double elephant.
M. =Malthoid.

X.14.d.	1	10x 8x6	C.I.roof.	Good.	12		
	2	7x 4x6	Timber.	do	3		# 12' earth.
	3	9x 6x6	C.I.roof.	do	8		
	4	3x12x8	Timber.	do	-	27	
	5	12x 6x7	C.I.roof.	do	8		
	6	14x 7x7	D.E. plus 1' earth.	do	14		
	7	12x 8x6	do	do	10		
	8	8x 8x6	do	do	7		
	9	10x 6x5	C.I.roof.	Fair.	10		
	10	11x 7x7	do	Good.	12		
	11	12x 6x6	do	Fair.	6		
	12	6x 6x6	do	Good.	4		
	13	12x 6x6	Malthoid.	Good	16		
	14	12x 6x6	do	do	16		

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.
No. *Ends*
Date *12/1/18*

3 26
6

ACCOMMODATION REPORT - (continued)
Left Brigade Sub-Sector.

Location.	No.	Dimensions in feet.	Cover.	Condition.	Accommodation.		Remarks.
					Men.	Horses.	
X.14.d.	15	6 x 6 x 6	D.E. plus 1' earth.	Good.	4		
	16	10 x 7 x 7	C.I. Roof.	Fair.	18		
	17	14 x 6 x 5	do	Good.	7		
	18	8 x 8 x 8	D.E. Roof plus 1' earth.	do	7		
	19	10 x 10 x 7	C.I. Roof.	do	9		
	20	12 x 6 x 8	do	do	-		B'smith shop.
	21	7 x 6 x 6	D.E. Roof. plus 1' earth.	do	4		
	22	12 x 8 x 7	Malthoid.	do	-	4	
	23	21 x 9 x 7	Timber.	do	-	-	Store.
	24	12 x 10 x 7	C.I. roof.	do	-	4	
	25	144 x 10 x 7	do	do	-	31	
	26	5 x 10 x 7	D.E. Roof. plus 1' earth.	do	10	-	
	27	36 x 12 x 7	Timber.	do	-	8	
	28	32 x 10 x 7	L.T. & M.	do	-	6	Khast. Shed.
	29	13 x 10 x 7	do	do	-	-	
	30	7 x 7 x 7	do	do	4	-	
	31	14 x 10 x 7	Timber.	do	12	-	
	32	8 x 8 x 7	C.I. Roof.	do	4	-	
	33	7 x 6 x 6	D.E. "	do	4	-	
	34	9 x 6 x 6	C.I. "	do	5	-	
X.15.c.	1	9 x 7 x 5	C.I. Roof.	Good.	8	-	
	2	12 x 6 x 5	do	do	8	-	
	3	10 x 6 x 5	D.E. Roof.	do	6	-	
	4	12 x 6 x 6	C.I. Roof.	do	6	-	
	5	10 x 6 x 7	do	do	6	-	
	6	8 x 6 x 7	Timber.	do	4	-	
	7	12 x 7 x 7	C.I. Roof.	do	6	-	
	8	24 x 10 x 7	Timber.	do	-	4	
	9	24 x 10 x 7	C.I. Roof.	do	-	4	
	11	24 x 10 x 7	do	do	-	4	
	12	12 x 10 x 7	do	do	-	2	
	13	14 x 10 x 7	L.T. & M.	do	-	8	
	14	118 x 11 x 7	C.I. Roof.	do	-	31	
	15	6 x 6 x 5	do	do	-	-	Shed.
	16	48 x 10 x 7	do	do	-	16	
	17	48 x 10 x 7	do	do	-	16	
	18	8 x 9 x 7	D.E. Roof.	do	3	-	
	19	4 x 6 x 6	Timber.	do	1	-	
	20	7 x 8 x 4	do	do	4	-	
	21	65 x 8 x 4	C.I. Roof.	do	-	5	
	22	6 x 10 x 6	D.E. "	do	7	-	
	23	9 x 15 x 9	C.I. "	do	12	-	
	24	18 x 6 x 8	do	do	-	-	Store.
	25	16 x 6 x 7	do	do	6	-	
	26	6 x 10 x 6	D.E. Roof.	do	6	-	

NOTE:- abbreviations under 'cover':-

- D.E. = Double elephant roof with 1' earth (average).
 C.I. = Corrugated iron roof.
 T. = Timber. do
 L.T. = Light Timber. do
 M. = Malthoid. do

H. Q.
1st AUSTRALIAN
DIVL. ENGINEERS.

E 2035
16/8/18

No.
Date

Lieut. Colonel,
C.R.E., 1st Australian Division.

SECRET.

Copy No. 4



H.Q., Divisional Engineers,
1st. Australian Division,
24th. August, 1918.

C.E., Aust. Corps,

1. Engineer Reconnaissance Report No.7. upon 1st. Aust. Divisional Area 'C' sector and forward of a line approx. R.54.b. Central, R.2.b. Central. Reference Map HARBONNIERES, 1/40,000 (Parts 62D, 62C, 66E, and 66D.).
2. WATER SUPPLY, ACCOMMODATION and ROADS as per attached.
3. GENERAL, There is a large R.E. Dump at L.28.c.0.0. containing wire, pickets and miscellaneous stores. Small supply of Corrugated iron, timber and Cupolas at R.55.a. Central.
Light Railway has been pulled up in R.27.c. and also in R.28.c. & D., but is in R.23.c.2.0. to R.23.d.6.6, and in good order.
4. WORKS, The works carried out by the three Field Companies and the Pioneer Battalion is shown in attached works reports.

NOTE:-

The reconnaissance Report upon River SOMME forward of R.2.a. Central has not yet come to hand except that river can be crossed at Lock at L.28.c.5.3.

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

DISTRIBUTION:-

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 " No. 2. 1st. Aust. Division.
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 ✓ " No. 4.) War Diary.
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 " No. 6. File.

WATER SUPPLY AND WELLS.

Location.	No. of billet if any.	Depth to water.	Depth of water.	If pump or windlass in use.	If recently in use.	Remarks.
R. 28. c. 6. 4.	C.G.S. on corner of two roads.	50'	6'	Windlass in use. Requires new steel wire rope.	Yes.	Good brick well, good water.
R. 34. b. 10. 90.	-	20'	-	Fitted with pump, in good order.	Yes.	do
R. 29. b. 5. 1.	Roadway.	20'	-	Fitted with pump.	Yes.	do
R. 10. b. 1. 5.	-	-	-	To be re-fitted with windlass which has fallen down well.	Yes.	do
R. 23. d. 6. 7.	In trench.	-	-	-	No.	Marked dangerous.

Report to.
C.P.M. 23/8/18.

W. A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

H. Q., 1ST AUSTRALIAN DIVL. ENGINEERS.
No.
Date.

Appendix

28

ACCOMMODATION.

Location.	Description.	Dimensions.	Accommodation.	Cover.	If occupied.	By whom.	Remarks.
R.28.c.5.4.	Deep dugout, 2 entrances.	2-10' x 10'x7'	8	12' earth.	C.C.S.	C.C.S.	Shell proof.
R.28.c.5.4.	Deep dugout, 1 entrance.	10'x8'x7' 8'x6'x3'	6	do	Yes.	Sigs.	Shell proof.
R.29.c.Centl.	Brick culvert.	7'x7'x60', Dry.	20	20' earth.	Yes.	Misc.	Shell proof.
R.28.c.1.3.	Timbered dug-out.	20'x12'x12.	10	Poles covering.	No.	-	Splinter proof.
R.28.c.2.3.	Timber cover. R.S.J. & earth one foot.	20'x12'x12' 20'x12'x12'.	10	do	T.M.Material.	-	Splinter proof.
R.28.c.3.3.	do	35'x10'x12'.	-	Poles covering.	do	-	Splinter proof.

The whole of side of embankment is cut up into dugouts of all descriptions, from splinter proof to shell proof and the valley is capable of holding a Battalion of men. All dugouts are dug under side of the hill and well protected from shell fire. There are 10 deep dugouts timbered, they have been gradually filled up and are out of repair.

Report 6 p.m. 23/8/1918.

H. Q., 1ST AUSTRALIAN DIVL. ENGINEERS.
No.....
Date.....

W. A. Hurden

Lieut. Colonel,
C.R.E., 1st. Australian Division.

Appendix

101
29

REPORT ON ROADS.

6 p.m. 23/8/1918.

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.

No.
Date 1/9

Map Location.	Type.	Condition.	Traffic.		Necessary repairs.	Remarks.
			Single or double.	Horse or Motor.		
R.14.d.3.7.) R.20.b.3.6.) R.20.b.3.6.	Metalled.	Good.	Double.	Motor.	4 shell holes needs 4 yards filling.	Material at hand.
to R.20.a.95.50.	do	Good.	Double.	Motor.	1 large and 2 small shell holes, needs 1 1/2 cub. yards of filling.	do
to R.20.a.95.50.	do	Good.	Double.	Motor.	Small shell hole at R.20.a.90.55. needs 1 cub. yard of filling.	do
Q.24.b.75.80. R.20.a. 9. 6.	Earth track.	Fair.	Single.	Horse.	Need 1 cubic yard of filling at R.14.c.95.10.	Nil.
do R.14.d. 0. 4. R. 7.c. 2. 8.	do	-	-	-	-	Not in use. Overgrown by weeds.
to R. 7.d. 5. 7. R.7. c. 1. 8.	do	Fair.	Single.	Horse.	-	Nil.
to Q.12.b. 9. 2. R.20.a. 9. 5.	Metalled.	Good.	Double.	Motor.	-	Nil.
to R.20.c.00.75. R.20.a. 9. 5.	do	Good.	Single.	Motor.	Debris of house at R.20.a.-9.4. needs removing.	Not in use at present.
to R.20.d. 3. 8. R.20.d. 5. 8.	do	Good.	Double.	Motor.	Shell holes at R.20.d.-45.95., R.20.b.40.00., R.20.b.35.50., needs 2 1/2 c. yards of filling. Much debris on road from adjoining houses. 40 working hours to clear.	Material at hand.
to R.20.b. 3. 6.						

Appendix 1

13

30

Map Location.	Type.	Condition.	Traffic.		Necessary repairs.	Remarks.
			Single or Double.	Horse or Motor.		
R.20.b. 3. 4. to R.20.b. 5. 5.	Metalled.	Good.	Single.	Motor.	Much debris on road. 80 working hours to clear.	Nil.
R.20.b. 3. 9. to R.20.b. 65. 65.	do	Good.	Double.	Motor.	Much debris on road. 160 working hours to clear.	Nil.
R.20.d. 3. 8. to R.20.d. 5. 8.	do	Good.	Single.	Motor.	-	Nil.
R.20.b. 50. 65. to R.15.a. 3. 8.	do	Fair.	Double.	Motor.	Shell hole at R.20.b. 65. 70. Needs $\frac{1}{2}$ cubic yard filling.	Material at hand.
R.15.a. 3. 8. to R.14.d. 3. 7.	do	Good.	Double.	Motor.	-	Nil.

18

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.
Report to
No.
Date 6 pm. 22/8/18

W. A. Henderson Lieut. Colonel,
C.R.E., 1st. Australian Division.

Appendix
3
31

S E C R E T.

Copy No. ³
H.Q., Divisional Engineers,
1st. Australian Division,
25th. August, 1918.

18

C.E., Aust. Corps,

1. Engineer Reconnaissance Report No.8. - (No.2. of 1st.Aust. Divisional Area "C" Sector) forward of a line approximately R.34.b. Central to R.26. Central. Reference Map HARBONNIERES, 1/40,000 (Parts 62D, 62C, 66E, and 66D.).
2. Water supply, Accommodation, Roads, Bridges and Railways as per attached lists.
3. Materials as per attached lists.

W.A. Henderson Lieut. Colonel,
C.R.E., 1st. Australian Division.

DISTRIBUTION:-

Copy No. 1. C.E., Aust. Corps.
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H. Q., 1ST AUSTRALIAN DIVL. ENGINEERS.	
No.	E. 1. 510
Date	25/8/18

Appendix

13
32

ROADS AND TRACKS.

Location.		Type.	Condition.	Traffic.		Necessary repairs. Location of same.	Remarks.
From	To.			Double or single.	Horse or Motor.		
R.27.d.8.4.	R.30.c.2.4.	1st.Class Road.	Good.	Capable of taking double line of traffic of all kinds.		Filling of shell holes A removal of trees particularly along first 400 yards from R.27.d.8.4.	Several trees have been fallen along this stretch of road and there are also several shell holes (the road is at present under shell fire from all classes of guns.
R.28.c.5.5.	R.33.b.8.1.	do	Fair.	do	do	Shell holes to be filled.	Road has been shelled fairly heavily and there are holes at irregular intervals along stretch.
R.28.d.3.4.	R.34.a.5.0.	do	Fair.	do	do	do	do do
R.28.d.3.3.	R.29.a.6.9.	Overland Road Unmeta- lled.	Poor.	Single horse traffic (dry weather)	-	Clearing of whole length.	Road is partly sunken but earth from dugouts on side of road partly blocks the road itself.
R.35.a.1.9.	R.29.Central.	Unmeta- lled.	Fair.	do	-	Filling of few shell holes.	This road follows valley & affords excellent shelter for traffic moving parallel to line.
R.28.c.5.5.	R.22.a.6.6.	do	Good.	All weather horse traffic.		do	Chalk road.
R.27.Cent.	R.28.b.6.6.	Overland track.	Fair.	Horse traffic.	-	do	Suitable for fine weather F.A. track.
R.28.c.6.6.	R.28.b.6.6.	2nd.class Road.	Fair.	All but heaviest traffic.		do	Nil.

18

Appendix

ce
66

ROADS AND TRACKS.
(Page 2.)

18

Location.		Type.	Condition.	Traffic.		Necessary repairs. Location of same.	Remarks.
From	To.			Double or Single.	Horse or Motor.		
R.14.d.0.4.	R.14.d.7.1.	Metalled.	Fair.	Single.	Motor.	Shell hole at R.14.d.15.35. Requires 1 c.yards of earth. Shell hole at R.14.d.7.1. requires $\frac{1}{2}$ c.yard of earth.	Material at hand.
R.15.c.10.75.	R.9.d.2.0.	Metalled.	Good.	Double.	Motor.	Nil.	Nil.
R.9.d.2.0.	R.12.c.4.9.	Metalled.	Good.	Double.	Motor.	6 shell holes require 3 $\frac{3}{4}$ c. yards of earth. 6 small breaks from R.11.a.7.7.to R.12.c.4.9. Fallen tree and branches need removing - R.11.a.3.9. to R.11.a.6.9.	Material at hand.
R.10.b.85.75.	R.4.d.45.45.	Metalled.	Good.	Double.	Motor.	Shell hole at R.4.d.6.2. requires 1 c.yard of earth.	Material at hand.
R.4.d.45.45.	R.9.d.95.65.	Metalled.	Good.	Double.	Motor.	Shell holes at R.10.c.3.8. requires 1 c.yard of earth, 8 small holes in this length $\frac{1}{2}$ c.yard each.	Material at hand.
R.9.d.95.65.	R.10.c.15.45.	Metalled.	Good.	Double.	Motor.	Nil.	Nil.
R.10.c.05.70.	R.8.a.8.9.	Metalled.	Good.	Double.	Motor.	8 small holes from R.10.c.7. 05.70 to R.9.a.9.2. Large hole at R.9.a.75.25.	Nil.

H. Q.
1ST AUSTRALIAN
DIVL. ENGINEERS.
Report to
No. 6pm
Date 24/8/18

W. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

Appendix

15
34

BRIDGES.

Location.	Type.	Description & Dimensions.	Estimated safe load.	Condition.	Necessary repairs.	Remarks.
R. 2.a.8.9.	Trestle.	5 bays, rough timber, trestle with iron rail, road bearers. 10" x 2" decking. 12' wide, 60' long.	Wheel horse transport.	Good.	Surrounding vally would be boggy in wet weather.	Middle bay requires strengthening. Material for repairs on site.
R. 2.a.8.9.	Landing Stage.	30' x 7' built of piles and planks.	-	Good.	-	Barges drawing 8' of water could be moored.
L. 34.a.0.9.	Girder.	24' x 10'	Horse transport.	Good.	-	Military bridge across lock 28 heavy steel rails, 11" planking.
L. 28.c.65.25.	Brick arch.	120' x 30'	-	-	Gap 90'.	This bridge is on the main BRAY-PROVANT Road.
L. 28.c.70.30.	Trestle.	120' x 3'.	-	-	Excepting 2 trestles bridges, totally destroyed.	Decauville bridge (railway) before demolition.
L. 33.c. 9. 8.	Pontoon.	120' x 10'.	Inf. in fours.	Good.	-	Guard by 9th. Fld. Coy. A.E.
L. 33.a. 6. 2.	Pontoon.	75' x 5'.	Inf. in file.	Good.	-	do do

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.

Report to
No.
Date 6pm. 24/8/18

Appendix

35

RAILWAYS.

Location.		Type.	Condition.	Necessary Repairs	Rolling stock if any	Remarks.
From	To					
R.26.d.7.4.	R.28.b.6.1.	Heavy Decauville	Formation only is existent.	Rails to be laid throughout this length.	Nil.	Formation is good but of old construction.
R.28b.6.1.	R.29.a.1.8.	do	Fair.	Rails have been removed in places.	"	Enemy have removed several sets of rails to prevent use of way.
R.29.a.1.8.	R.23.d.6.9.	do	Good.	Shell breaks only.	"	Way is in good repair here & could be made use of without much trouble in 24 hours.
R.28.b.7.8.	R.29.c.5.7.	do	Fair.	do	"	From R.29.b.7.8. to R.26.d.7.4. formation only is existent and that runs with the formation of No. 1.
R.29.c.3.7.	R.34.Central.	do	Poor.	Formation to be repaired and rails laid etc.	"	In this part formation only is existent and this has been damaged through usage as overland cart track.

18

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.
No. Report to
6 pm.
Date 24/8/18.

W.A. Henderson Lt Col
C.R.E. 1st Australian Division

Appendix

13/36

M A T E R I A L.

Location.	Estimated quantity.	Description.	Remarks.
R.35.b.2.2.	Unchecked.	Cupōlas heavy and Light. Light timber. Sheet iron. 6 galvd. tanks.	This is scattered through valley at this location. Part is ready ^{ready} for salvage and part is salvageable from huts and stables. Tanks are of 100 gallon capacity.
R.34.c.2.5.	6	Machine Guns German.	Good order.
R.29.c.Central.	1 9 300 30	Small copper tank. 10 gals. Iron tanks. 100 galls. Insulators Porcelain. Cross bars for telegraph posts.	Also at this location are some partly damaged huts containing timber possible to be salved, and a dump of German ammunition boxes.
R.29.c.8.4.	-	Timber and flat iron.	From a hut, ^{camp.} partly wrecked by shell fire.
R.29.c.Central.	-	Steel pumping plant.	Erected over a well. Plant is slightly damaged by shell fire. Water can be obtained by pumping by hand.

H. Q.
1ST AUSTRALIAN
DIVL. ENGINEERS.

No. *Report to*
6 pm.
Date. *24/8/18*

W A Henderson Lt Col
C.R.E. 1st Australian Division

Appendix

1
37

WATER SUPPLY AND WELLS.

Location.	No. of billet if any.	Depth to Water.	Depth of Water.	If pump or Windlass in use.	If recently in use.	Remarks.
R.34.b.9.5.	-	40'	15'	Large pump attached.	Yes.	Ready for use. Water clear, and apparently good. Well timbered.
R.29.b.2.3.	-	30'	10'	do	Yes.	There is a good approach for horse and foot traffic to well.
R.29.a.2.8.	-	Good supply.	Uncertain.	Large pump.	Yes.	Artesian Bore. Well is timbered. Water good.
R.29. b.4.5. <i>d. 9.3.</i>	-	Uncertain	"	No.	Yes.	This well was hit by shell resulting in pump being destroyed. Well practically beyond repair.
R.29.c. Central.	-	do	"	Pump. Hand & Steam.	Yes.	Pump damaged by shell fire. Water good.
R.17.b.5.0.	-	-	-	Pump in working order.	-	Nil.
R. 9.d.3.5.	-	-	-	-	Yes.	Tested by 1st. Battalion M.O. and fit for drinking.

18

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.
Report to
No. 6pm.
Date. 24/5/18

*W.A. Henderson Lt Col
C.R.E. 1st Australian Division*

Appendix
18
38

A C C O M M O D A T I O N .

Location.	Description.	Dimensions.	Accommodation.	Cover.	If Occupied.	By whom.	Remarks.
R.27.c.50.45. R.28.c.40.35.	Dugouts.	10' x 8' 18' x 12'	4 bunks. 20 men.	15' earth. 5' earth, 6" logs & earth.	Yes. Yes.	8th. Bn. 8th. Bn.	Nil. Well made.
R.28.c. 5. 4.	Dugouts.	50' drive.	25 men.	15' earth.	Yes.	7th. & 8th. Bn. Hq.	Nil.
R.28.c.25.30.	Dugout.	10' x 12'	8 men.	7' logs & earth.	Yes.	8th. Bn.	Well made.
R.29.c.40.70.	Culvert under road.	15' long 6' dia.	40 men.	15' earth Road batter.	-	-	Culvert under road shell proof.
R.29.c.40.70. to R.29.b.40.10.	Drive Good Funk hole. Dugout.	30' long 5' x 4'. 15' x 12'.	20 men. 10 men.	10' chalk. 8' rubble. Logs, R.S.J's. Burstors 12'.	-	-	In chalk bank. Timbered. do
	2 Cupolas.	12' x 6' 1 leading to drive.	8 men each.	6" logs, 10' earth.	-	-	do
R.29.d.10.40. to R.23.d.70.90.	Drive. Dugout.	20' x 5' x 4' 10' x 10'	15 men. 5 men.	Shell proof. 7' (6" logs & 6' chalk.)	-	-	Timbered. Timbered 6" logs.
R.14.d.30.05.	Chateau.	(2 cellars) 35' x 15'	-	Brick arched roof. & R.S.Js	Yes.	Sigs.	-
R.10.c.30.85.	Cellar.	12' x 6'.	4 men.	Brick arched roof.	No.	-	In construction. Large dug- out in rear with 2 drives complete and linked up with passage.
R.16.d. 5. 5.	Timbered.	2 x 16' x 7' x 6' 6" 2 entrances each.	-	8' minimum.	-	-	Adjoining these there are two more dugouts each 7' x 7' x 6' 6". Work of removing block between dugouts proceeding, when complete the whole will form one dugout 90' x 7' x 6' 6"

18

Appendix

H. Q.
1st AUSTRALIAN
DIVL. ENGINEERS.
Report to
No. *6711*
Date *22/8/18*

W. A. Henderson Lieut. Colonel,
C.R.E., 1st. Australian Division.

39

SECRET.

Copy No. ^{5.}
H.Q., Divisional Engineers,
1st. Australian Division,
26th. August, 1918.

C.E., Aust. Corps,

1. Engineer Reconnaissance report No.9. - (No.3. of 1st.Aust.Div. Area "C" Sector) forward of a line approximately R.34.b. Central to R.26. Central. Reference map HARBONNIERES 1/40,000 (Parts 62D, 62C, 66E, 66D,)
2. Water Supply and Railways as per attached lists.
3. Material as per attached list.

W. A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

DISTRIBUTION:-

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- " 2. 1st. Aust. Division.
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H. Q., 1st AUSTRALIAN DIVL. ENGINEERS.	
No.	<i>ED 512</i>
Date.	<i>26/8/18</i>

Appendix

1a1

40

***** WATER SUPPLY AND WELLS. *****

18

Location.	Depth to Water.	Depth of Water.	Estimated Quantity of Water.	If pump or Windlass in Position.	If recently in use.	Necessary repairs.	Remarks.
R.17.d. 1. 1.	-	-	-	Yes.	Yes.	Nil.	Good condition, sealed down.
R.17.d. 2. 3.	10'	-	-	No.	Yes.	Nil.	Requires Windlass or pump.
R.23.b. 3. 1.	-	-	-	Yes.	Yes.	Nil.	Good condition.
R. 9.d.95.25.	110'	-	-	Yes.	Yes.	Nil.	do
R.10.c. 5. 7.	30'	10'	-	Yes.	No.	Nil.	do (2 wells).
R.11.a. 2. 8.	G.Level.	-	-	-	Yes.	Nil.	Used for horses. Surrounding ground swampy.
R.10.a. 8. 4.	35'	20'	-	Windlass.	Yes.	Nil.	Good condition.
CHUIGNOLLES							
Billet No.18.	30'	-	-	do	Yes.	Nil.	
" No.27.	40'	-	-	do	Yes.	Nil.	
" No.26.	35'	-	-	do	No.	Windlass requires fixing.	Windlass on site.
" No.31.	-	-	-	Pump.	Yes.	Nil.	Unfit for drinking.
" No.39.	-	-	-	Pump.	No.	Nil.	Good condition.
L.34.d. 5. 3.	5'	20'	-	Pump.	No.	Nil.	do
R. 4.b. 6. 8.	12'	-	-	Pump.	Yes.	Nil.	Nil.

W.A. Henderson Lieut.Colonel,
C.R.E., 1st. Australian Division.

H. Q.,
1st AUSTRALIAN
DIVL. ENGINEERS.
Report to
Date... *Gpm. 25/6/18*

101
171

***** RAILWAYS. *****

Location.		Type.	Condition.	Necessary repairs.	Rolling stock if any.		Remarks.
From.	To.						
R.15.d.0.3.	R.15.a.3.9.	Broad Gauge (80 lb.rails).	Fair.	6 lengths & 15 sleepers.	Nil.	Nil.	
R.15.d.0.1.	R.15.b.Central.	3'6" gauge (80 lb.rails).	Fair.	6 lengths.	Nil.	Nil.	
R.23.b.5.0.	R.17.a.9.7.	Light decauville.	Bad.	-	-	-	Beyond repair.
R.17.a.4.9.	R.11.b.3.0.	do	Bad.	7 lengths.	3 light trucks.		Formation very swampy.
R.11.a.5.9.	R.11.b.4.3.	Broad Gauge (80 lb.rails).	Fair.	4 lengths.	Nil.		Formation good.
L.28.c.5.0.	-	Decauville & Broad Gauge.	-	-	-	-	Bridge destroyed.
L.34.a.5.9.	R. 4.b.3.9.	Broad Gauge.	Fair.	6 lengths.	25 to 30 light trucks.		70' to 80' crater blown in line at L.34.d.3.5.
R. 4.a.9.9.	R.11.a.5.9.	do	Fair.	-	Nil.		Blown in at frequent intervals. Formation good.
L.34.c.9.0.	R. 3.b.0.0.	Meter Gauge (30 lb.rails.)	Fair.	-	Nil.		do do

H. Q.
 1st AUSTRALIAN
 DIVL. ENGINEERS.
 Report to
 No. _____
 Date 6pm 25/8/18

W.A. Henderson
 Lieut. Colonel,
 C.R.E., 1st. Australian Division.

Appendix

3/42

===== R. E. MATERIAL. =====
 =====
In old Enemy Dump.

Location.	Material.	Lths.	Coils.	Number.	Rolls.	Remarks.
R.16.c.8.5.	Barb wire.	-	14	-	-	Nil.
R.10.a.2c.	Mining sets.	-	-	700	-	Nil.
R.10.b.0.7.	Decking, 10"x2"	50	-	-	-	Nil.
L.53.b.5.9.	R.S.J., 18"x7"x3 1/2"	-	-	3000	-) Note:- There are also large quantities of light decking, Iron Pickets, Squared timber of all dimensions. Also small supply of X.P.Metal.) Some sawn timber, duckboards, wire plain, and barb and netting.
"	Mining sets.	-	-	6000	-	
"	Duckwalks.	-	-	5000	-	
"	Wire netting.	-	-	-	40	
"	Wood Pickets 5'	-	-	3000	-	
"	Bunk frames	-	-	80	-	
"	Cupolas 6'6"	-	-	70	-	
"	Decking, 10"x2"	2000	-	-	-	
"	Cor. iron.	-	-	700	-	
"	Forest timber	80 (19')	-	-	-	
"	Steel rails (80lb.)	100	-	-	-	
L.54.d.2.2.	Round timber.	Qty.	-	-	-	Some sawn timber, duckboards, wire plain, and barb and netting.
to	(10" dia. to 12")					
R. 4.b.5.5.	long.					

W.A. Henderson
 Lieut. Colonel,
 C.R.E., 1st. Australian Division.

H. Q.,
 1ST AUSTRALIAN
 DIVL. ENGINEERS.
 No. *Report to*
 Date. *Apr. 25/18*

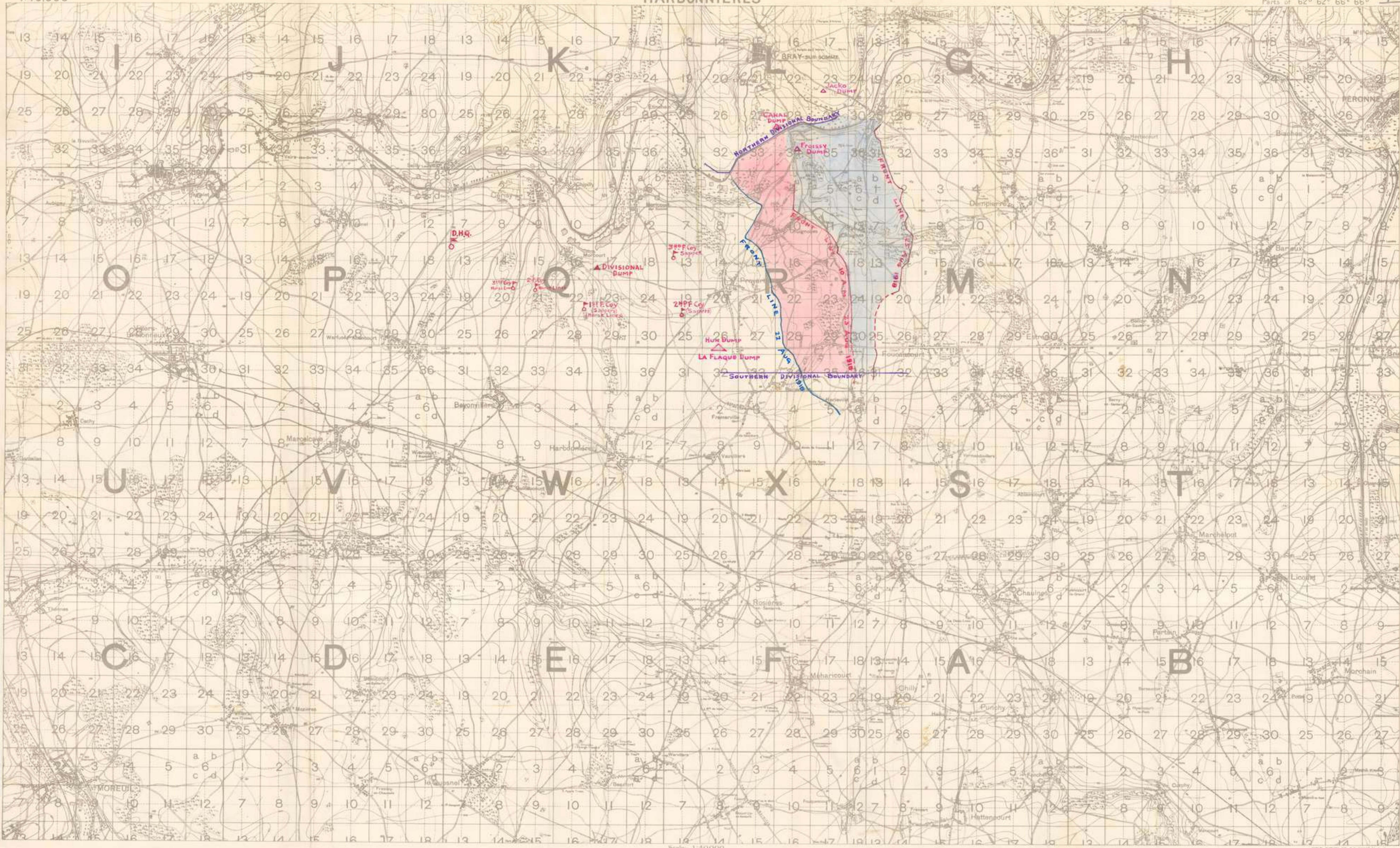
Appendix

12
43

Appendix IV
Operations 1955

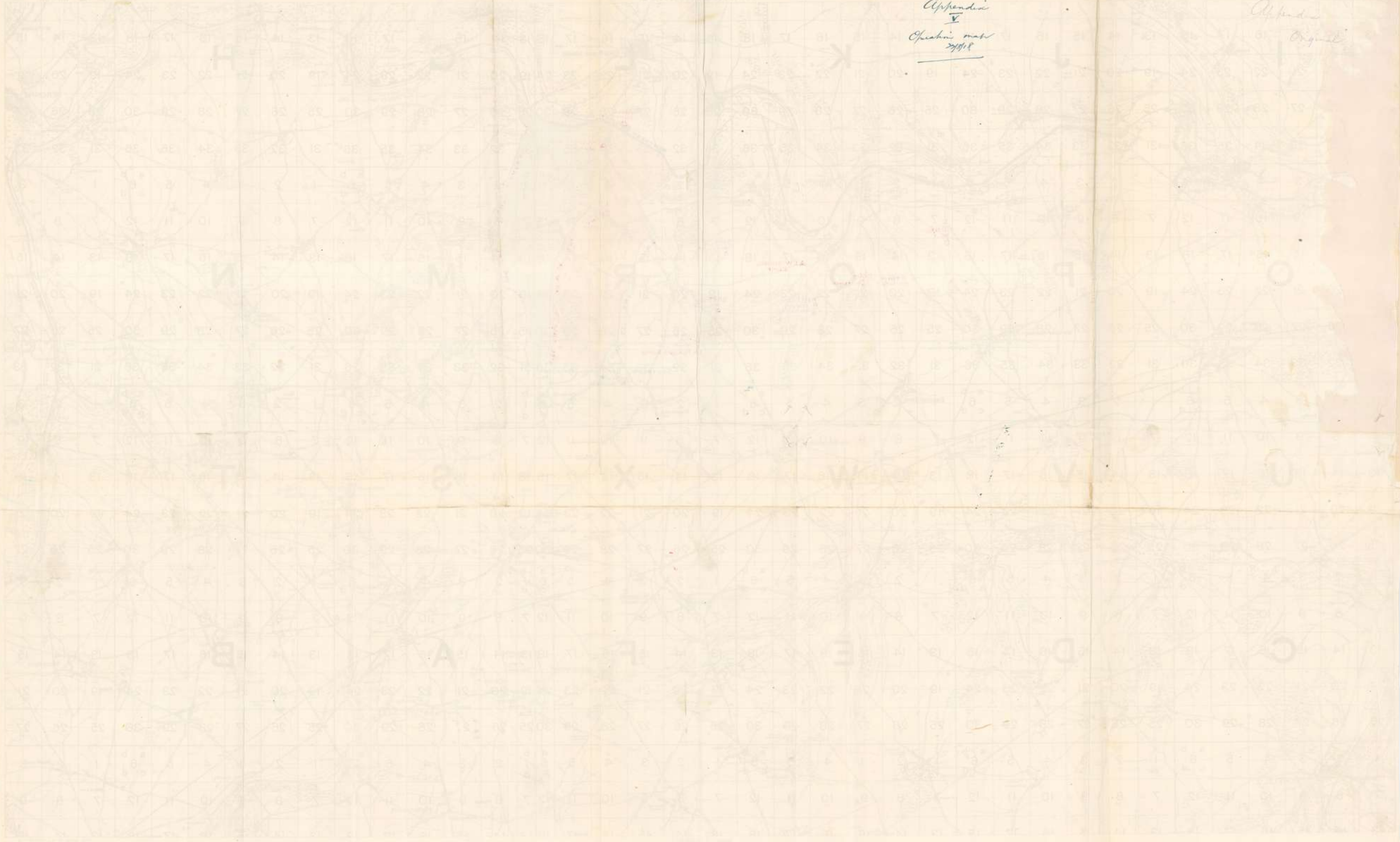
Appendix
Operations

OPERATIONS



Appendix
v
Operations map
2/11/18

Appendix
Original



Proposed programme of Training and Recreation.

1st. Field Company Engineers

	<u>Morning</u>	<u>Afternoon</u>
<u>Tuesday August 20th.</u>	Lewis Gun Instruction.	Compulsory Swimming Parade and Training for Aquatic Sports.
<u>Wednesday August 21st.</u>	Rifle Drill and Demolitions.	do.
<u>Thursday August 22nd.</u>	dp.	do.
<u>Friday August 23rd.</u>	Pontooning.	Company Aquatic Sports.
<u>Saturday August 24th.</u>	Company Drill.	Swimming Parade.

W.A. [unclear]

J. H. [unclear] Capt.

Major, A.E.
O.C. 1st Field Coy. Engineers

19 8/18.

Appendix

6

46

To:-
C.R.E.
1st Aust Div.

C/221.
19.8.18.

Herewith please this unit's Programme of
training for period 20/24th inst.

Rablinton Capt.
for O.C. 2nd Field Co. Engineers.

Appendix

6/47

SYLLABUS of TRAINING.

Date.	Section.	Parade. 7.am.	Parade. 9.- 9.30 a.m.	Training. 9.30 - 12 noon.	2. - 4.p.m.	
20/8/18.	No.1.	Bathing.	Rifle & Gas mask inspection.	Equipment mask inspection.	Pontooning & Trestling.	Cricket Football & other sport.
"	2.	"	"	"	Lewis Gun.	"
"	3.	"	"	"	Guards & Sentry.	"
"	4.	"	"	"	Bridging Lecture on Reconnaissance & water supply.	"
21/8/18.	1.	Bathing.	Rifle & Gas mask insp-.	Equipment mask insp-.	Lewis Gun.	"
"	2.	"	"	"	Pontooning & Trestling.	"
"	3.	"	"	"	Bridging Lecture on reconnaissance & water supply.	"
"	4.	"	"	"	Guards & Sentry.	"
22/8/18.	1.	"	"	"	Guards & Sentry.	"
"	2.	"	"	"	Bridging Lecture on reconnaissance & water supply.	"
"	3.	"	"	"	Lewis Gun.	"
"	4.	"	"	"	Pontooning & Trestling.	"
23/8/18.	1.	"	"	"	Bridging Lecture on reconnaissance & water supply.	"
"	2.	"	"	"	Guards & Sentry.	"
"	3.	"	"	"	Pontooning & Trestling.	"
"	4.	"	"	"	Lewis Gun.	"
24/8/18.	1.	"	"	"	Section and Company Drill.	"
"	2.	"	"	"	do.	"
"	3.	"	"	"	do.	"
"	4.	"	"	"	do.	"

-----0000000000000000-----

MAN

R. Abington Capt.
for O.C. 2nd Field Co. Engineers.

3RD FIELD COMPANY,
 AUSTRALIAN
 ENGINEERS.
 No. A.O. 31
 Date 19.8.18.

CPL
 1st Aust Div

Attached please find
 training programme for the period
 20.8.18 to 24.8.18.

R. Kearick Capt.
 for G.C. 3rd Field Co A.E.

W.A.H.

¹⁸
3rd Field Co. A.E.

Training Programme Appendix 6 50
19th August 1918.

20. 8. 18.

8.30 - 10 a.m.

Rifle Exercises.

10 a.m. - 10.15 a.m.

Smoke.

10.15 a.m. - 12 midday

Pontooning.

Afternoon

3rd Brigade Sports.

21. 8. 18.

8.30 - 10 a.m.

Coy. Drill.

10 - 10.15 a.m.

Smoke.

10.15 - 11 a.m.

Gas Drill.

11 a.m. - 12 midday

Rifle Exercises.

Afternoon

Swimming.

22. 8. 18.

8.30 - 11 a.m.

Pontooning.

11 - 11.15 a.m.

Smoke.

11.15 a.m. - 12 midday

Gas Drill.

Afternoon

Swimming.

23. 8. 18.

8.30 - 11 a.m.

Pontooning.

11 am - 11.15 am.

Smoke.

11.15 am - 12 midday

Coy Drill.

Afternoon

Swimming.

24. 8. 18.

8.30 - 11 a.m.

Pontooning.

11 - 11.15 a.m.

Smoke.

11.15 - 12 noon

Gas Drill.

Afternoon

Swimming.

R. Harwick Captain
In C 3rd Field Co A.E.

Work for 24 hours ending 6 p.m. 13/8/1918.

FRONT LINE.

Improvements to trenches.)
 12 recesses for S.A.A.)
 Carrying material.)
 Bombing stops 4 yards x 2 yards x 1½ yards erected.)
 Bombing sap constructed.) 25 Sprs. 16 Inf. 600 Pn
 5 Saps - Bomb stops - 4 yards x 2 yards x 1½ yards.)
 Strong Points 1 to 8, 847 yards excavated.)
 " " 1 to 8, 150 yards wiring.)

SUPPORT LINE.

60 yards D.A.Fence erected.)
 3 S.P. each 60 yards set out.)
 1 S.P. 50 yards set out.) 43 Sprs.
 400 yards D.A.Fence 90% completed .)

MAINTENANCE OF ROADS & MISCELLANEOUS.

Constructing 4 shelters - X.14.c.5.8.)
 Reconnaissance.)
 Erecting windlass & stand, well at X.8.c.2.4.)
 Repairs to Electric light installation Bde.Hqrs.)
 and gasproofing doors.)
 Strengthening 4th. Bn.H.Q.)
 Constructing and Erection Notice Boards.) 142 Sprs. 40 Inf.
 Strengthening 'C' Coy. 4th.Bn.H.Q.)
 Carrying for wiring.) 180 Pioneers.
 Improvements and repairs to wells and horse troughs)
 4 water bottle points fixed, 2 in preparation.)
 Screen at X.26.d.4.5.)
 Pumping station - Water Supply, 40,000 gallons.)
 Strengthening cellar, BAYONVILLERS - dugout.)
 Salving material.)

H. Q., 1st AUSTRALIAN DIVL. ENGINEERS.
No.
Date 14-8-18

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

Work for 24 hours ending 6 p.m. 14/8/1918.SUPPORT LINE.

350 yards D.A.Fence erected.)
 30 yards D.A.Fence 90% completed.)
 200 yards completed prev.reported 90%) 37 Sprs.
 complete.)

WATER SUPPLY.

Pump at X.21.d.9.0. repaired *)
 (not yet complete).)
 3 horse troughs.)
 1 Water bottle filling stand.)
Pumping at X.26.d.90.:-)
 40,000 gallons.)
 2,000 horses watered.)
 30 water carts filled.)

DECAUVILLE RAILWAY - X.23.c.55.15.

Formation repaired.)
 11 lengths rail laid to repair gaps.)
ROAD - X.28.b.2.5.)
 Repairs to road.)

MISCELLANEOUS.

Constn.4 shelters - X.14.c.5.8.)
 Constn.2 gas proof doors at Bde.H.Q.) 158 Sprs. 24 Inf.
 Salving material & 75 - 5' posts.)
 & constn.140 Notice boards.)
 Painting and lettering Notice Boards.)
 Salvaged:Disinfector at X.21.d.9.0.)
 1 Rushton - Proctor 8 H.P.Staty.Eng.)
 1 Duplex Double Acting steam pump.)
 1 Portable Lighting set.)
 7 German Water tanks & Carriage.)
 Salvage 620' - 6" x 1".)
 " 3 rolls malthoid.)
 Reconnaissance of Brigade Area.)

*W. A. Henderson*Lieut.Colonel,
C.R.E., 1st.Australian Division.

24 hours ending 6 p.m. 24th.August 1918.

FRONT LINE.

- 70 c.yds. excavation- R.5.central.
- 490 yards D.Apron Wire erected.
- 160 yards Pickets placed in position for Wiring.
- 300 yards Concertina Barb.erected.
(R.36.a.95.00 to R.36.a.95.95.)
- 70 yards Wire repaired.
- 220 c.yds. excavation and Wiring on Left Brigade Posts.

Men employed 59 Sappers. 275 Pioneers.

In addition:-

- | | | | |
|---|-------------|--------------|--------------|
| Clearing Roads and Tracks in Div.Area and repairing same. | | | 47 Pioneers. |
| Constructing Artillery Dugouts. | | | 10 do |
| Reconnaissance Work. | 14 Sappers. | | |
| Construction 3rd.Bde.H.Q. | 36 do. | | |
| Accom. Advcd.H.Q. 1st.Aust.Div. Shelters,etc. | 7 do | 47 Pioneers. | |
| Accom.Coy.H.Q. | 25 do | | |
| Gas Proofing Doors 9th.Bn.H.Q. | 7 do | | |

W.S. Henderson

Lieut.Colonel.
C.R.E.1st.Australian Division.

H. Q.,	
1st AUSTRALIAN	
DIVL. ENGINEERS.	
No.....	
Date <i>25.8.18.</i>	

-24 Hours ending 6 p.m. 25th. August 1918.

FRONT LINE.

89 yards Trench improved.)	10 Sappers
150 yards Wire repaired.)	321 Pioneers.
150 yards Trench excavated.)	
Wiring Outposts- R.30.a.4.3. to M.25.d.4.0.)	
do do - M.25.d.4.0. Southwards for 300 yds.))	
do do + M.25.d.1.0. to R.36.a.9.4.)	

ACCOMMODATION:

Erecting Shelters 3rd.Bde.H.Q.)	
Constn.R.A.P. R.5.a.0.0.)	
Gas Proofing Doors 9th.Bn.H.Q.)	
Constn.Shelters etc.Adv.D.H.Q.)	108 Sappers
Gas Proofing Doors 3rd.Bn.H.Q.)	6 Infantry.
do do do R.A.P.)	45 Pioneers
Constn.Shelters 1st.Bde.H.Q.)	
Gas Proofing Doors Res.Bn. 1st.A.I.Bde.)	
do do R.28.c.5.4.)	
do do 5th.Bn.H.Q.)	
do do 8th.Bn.H.Q.)	
do do Coy.H.Q. R.35.b.8.6.)	

MISCELLANEOUS.

Salvage of Material.)	
Reconnaissance.)	
Fixing Pump at R.29.c.4.5.)	45 Sappers
do Water Tanks R.20.b.4.2.)	234 Pioneers.
Examining and Detonating Bombs.)	
Clearing and Maintenance of Roads in Div.Area)	
Construction of Artillery Dugouts)	

W. Henderson

Lieut.Colonel.
C.R.E. 1st.Australian Division.

H.Q.
1ST AUSTRALIAN
DIVL. ENGINEERS.

No. *76/8.18*

Date *25/8.18*

H.Q. Divisional Engineers,
1st. Australian Division.
26th. August 1918.

H. Q.	
1ST AUSTRALIAN	
DIVL. ENGINEERS.	
No.	<i>62511</i>
Date	<i>26/8/18</i>

C.R.E., 2nd. Aust. Div.,
C.R.E., 5th. Aust. Div.,

Herewith Handing Over Report and Map.

1. Report consists of No. 7, 8 and 9 Reconnaissance Reports giving all necessary information concerning Water, Accommodation, Roads, Bridges, Railways etc. The information deals with the whole Area held by the 1st. Aust. Div., but all information ticked off in red, concerns the 5th. Division (Right Div.,) that not marked concerns the 2nd. Aust. Div. (Left Div.).
2. The map shows the whole area of the 1st. Division, but the boundaries of the 5th. and 2nd. Divisions are shown.
3. The 1st. Aust. Divisional Dump at Q. 17. c. 1. 5. will be taken over by the 2nd. Aust. Div., and Stock Sheet will be handed over on the Dump.
A list of Material in MATHER Corps Dump is also attached.
4. Additional information concerning Dugouts in the Right Divisional Sector and to the rear of present ~~XXXX~~ position will be handed to C.R.E., 5th. Aust. Division.

W. A. Henderson

W. A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

Appendix

18

55

H. Q., 1ST AUSTRALIAN DIVL. ENGINEERS.	
No.	ES498
Date.	14.8.18

H.Q., Divisional Engineers,
1st. Australian Division,
15th. August, 1918.

14.

HANDING OVER REPORT C.R.E., 1st. Aust. Div. to C.R.E., 4th. Aust. Division.

Ref. Map HARBONNIERES 1/40,000
Parts 62D, 62C, 66e, 66D,

RELIEF.

The 1st. Australian Division is being relieved by the 4th. & 5th. Australian Divisions and Operation continued on the 15th. inst.

DISTRIBUTION OF COMPANIES.

The arrangement of Field Companies for works, reconnaissance etc. is as follows:- The Brigades in the line had their companies working close up behind. Two Sections doing reconnaissance of Wells, Roads and Railways. One doing any urgent work required in temporary repairs to roads and the other being held in hand. The Reserve Company constructing Horse Watering Points, repairs to all Wells requiring same in the Divisional Area.

PIONEERS. Three Companies have been working with the Brigades in improving existing trenches and communication. One Company on Forward Roads.

LOCATIONS:-

1st. Field Company Sappers - W.12.c.5.2.	Horse Lines Q.32.c.5.8.
2nd. " " " - W.25.b.8.4.	" " } W. 7.c.7.8.
3rd. " " " - X.14.c.5.8.	" " }

Pioneers in vicinity of HARBONNIERES, Battalion Headquarters at W.17.b.5.8.

WORKS.

Appendix (1) containing Reconnaissance Reports 1, 2, 3, & 4 which have been forwarded to C.E., Corps show the work upon which the Companies have been engaged.

Odd work such as strengthening cellars, making cellars and dugouts gas proof, increasing accommodation as required by the Brigades.

STORES.

Appendix (11) gives the necessary information regarding Dumps and R.E. Stores.

GENERAL.

of water

The large quantity temporarily required in the Area has put a great demand on the well system. Nearly all wells have hand pumps only. Small petrol driven pumps should be put in at once at X.25.b.8.3. and X.21.d.0.4. C.E. has already been asked if these can be supplied.

There are three 1,500 gallon water Bogies at X.21.d.9.0. filled with water, giving 4,500 gallons. This water will be used by 6 p.m. 14th. inst. and arrangements will now have to be made with the 6th. ~~XXXXXX~~ Foreway Company R.E. who have now taken over the Decauville Tracks. These tanks can be filled at X.25.b. and pushed forward for the fighting troops.

Regarding evacuation of wounded from the Clearing Hospital at X.21.d. by Decauville Railway. This is under consideration and arrangements will have to be completed by your Division with 6th. Foreway Company R.E.

At W.24.b.8.5. there is a small lighting plant for dugouts. A one four cylinder magneto with distribution is required to put the whole set in running order. This is urgent as three Brigade Headquarters are now in this vicinity.

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

P.T.O.

Appendix IX

Original

MONTHLY STATEMENT OF CASUALTIES, EVACUATIONS, REINFORCEMENTS ETC.

for Month of AUGUST, 1918.

H.Q., Divisional Engineers,
1st. Australian Division,
1st. September, 1918.

U n i t .	Casualties.				Evacuated sick.Rejd.from Hospital.				Reinforcements jd.		Transfers.				R e m a r k s .
	Kld.& died of wounds.		Wounded.		Off.	O.R.	Off.	O.R.	Off.	O.R.	Plus.		Minus.		
	Off.	O.R.	Off.	O.R.							Off.	O.R.	Off.	O.R.	
1st.D.E.H.Q.	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
1st.Fld.Coy.	-	3	1	6	1	6	4	8	-	11	-	1	*1	1	*Transport duty to AUSTRALIA.
2nd.Fld.Coy.	-	3	2	25	-	18	2	6	-	17	-	1	-	1	
3rd.Fld.Coy.	-	2	-	5	-	15	-	9	1	24	-	-	-	1	
T o t a l .	-	8	3	36	1	39	6	23	1	52	-	3	1	4	

STATEMENT OF CHANGES IN OFFICERS:-

1st.Field Company A.E.

2/Lieut. HETHERINGTON, H.T. from hospital 2/8/18.

Capt. FITZGERALD, W.E. Taken on strength 15/8/18, from seconded Engr.Training Depot BRIGHTLINGSEA.

Major. SINCLAIR, D.G. Rejoined from Hospital England 23/8/18.

Lieut. HIGGINS, W. From BRIGHTLINGSEA 27/8/18.

Lieut. EARLE, R.O.W. Returned to Australia on Transport Duty 7/8/18.

2/Lieut. MOFFITT, F.G. To hospital wounded 11/8/18.

Major. SINCLAIR, D.G. To hospital whilst on furlough in England 2nd. August, 1918.

2nd.Field Company A.E.

Lieut. COLLINS, W.A. From Engineer Training Depot BRIGHTLINGSEA 5/8/18.

Lieut. BRYAN, C.S. Rejoined from Hospital wounded 18/8/18.

Lieut. DEACON, F.J. To hospital wounded (Gas) 25/8/18.

Lieut. BRYAN, C.S. do do (Gas) 27/8/18.

3rd.Field Company A.E.

Lieut. ROGERSON, F. To Engineer Training Depot BRIGHTLINGSEA on Instruction Staff 28/7/18.

2/Lieut. HAGUE, J.H. Taken on strength ex Cadet School England 26/8/18.

1st.Field Company A.E.

Capt. (T/Major) SINCLAIR, D.G. To be Major, dated 4/4/18. (Authority A.I.F.List 362 of 30/7/18.)



W. A. Henderson
Lieut. Colonel,
C.R.E., 1st. Australian Division.

WEEKLY EMPLOYMENT AND LOCATION REPORT.

4/8/18

1st. Australian Division. Location of C.R.E. - WARDRECQUES. Sheet 36A. v Sh 27.

Unit.	Strength.		Location.	Remarks showing employment & etc.
	Off.	O.R.		
1st. Field Company.	9	209	B.19.b.8.4.	<p><u>SUPPORT LINE.</u> 60 yds. trench excavated. 169 yards trench widened. 81 yds. trench revetted. 40 yards trench cleaned out. 9 shelters completed. 2 shelters partially completed.</p> <p><u>NORD ST.</u> 50 yards trench widened and revetted.</p> <p><u>"D" LINE 2nd. ZONE.</u> 120 yards D.A. Fence erected.</p> <p><u>ACCOMMODATION.</u> W.16.d.4.4. Strengthening and protection of R.A.P. 60% completed.</p> <p><u>Y.M.C.A. BORRE.</u> Repairs effected to Gas Plant.</p> <p><u>DEMOLITION.</u> Farm house at E.3.b.9.4. demolished for Field of Fire. Additional work:- Salving R.E. Material from STRAZEELE DUMP, Guarding and renovating mines, guiding transport etc. Works handed over on 30/8/18, since when Company has been on the move and is now carrying out programme of Training.</p>
2nd. Field Company.	7	209	B.24.c.7.2.	<p>Forming, grading & laying Decauville Tramline. Coy. moved from U.18.b.2.2. to BORRE.</p> <p><u>SUPPORT LINE.</u> 350 yards trench dug. Handing over Centre Division Sector. Company moved from BORRE to BLARINGHAM.</p>
3rd. Field Company.	8	197	A.10.d.8.6.	<p><u>New Support Line in squares X.25.d., X.26.a., F.1.a., E.6.b., E.10.c., E.11.b.</u> 180 yards new trench dug. 20 yards new drain dug. 90 yards breastwork constructed and revetted with sandbags.</p> <p><u>Old Support Line in Squares X.19.B, W.24.d.</u> Enlarging trench for revetment 20 yards. 36 yards trench revetted. 54 yards trench firestepped.</p> <p><u>NORD ST.C.T.</u> 8 yards of trench enlarged for revetting.</p>

Appendix

1059

Unit.	Strength. Off. O.R.	Location.	Remarks showing employment &c.
3rd. Field Coy.	(continued)		<p><u>MERRIS STREET. - W.29.c.1.0.</u> 8 yards trench enlarged and revetted.</p> <p><u>MOLEDHEIM FARM. - E.10.c. & d.</u> 50 yards D.A. Fence erected. E.11.a.0.9. Battalion H.Q. were s trengthened. W.21.a.30.15. do do W.29.d.9.8. do do W.16.d.8.3. & X.19.d.8.8. R.A.P's. were strengthened. W. 8.a.8.0. Bde.H.Q. improved. Material was salved from STRAZEELE DUMP and 40 coils of Barbed concertina wire was made for use on Outposts. Work was generally hindered by operations and relief.</p>
1st. Pn. Bn.	16 583	B.1.A.0.9.	<p><u>SUPPORT LINE.</u> 34 shelters completed. 30 c.yards excavation. 87 yards trench revetted. 200 yards of parapet & parados sandbagged. 225 yards revetment anchored back. 263 yards duckwalks laid. 85 yards trench widened and graded. 25 yards trench firestepped. <u>C.T. X.19.c.4.3. to X.25.b.3.1.</u> 160 yards trench widened and deepened.</p> <p><u>MERRIS STREET C.T.</u> 3 shelters completed. 25 yards trench drained. 55 yards trench revetted. 320 yards trench duckwalked. 15 yards drain excavated. 152 yards trench widened and graded. 80 yards parapet sandbagged. 70 yards parapet levelled. 115 yards trench excavated.</p> <p><u>ROUGE CROIX SWITCH.</u> 13 shelters completed. 8 shelters semi completed. <u>C.T. - E.5.b.6.2. to E.8.c.3.5.</u> 880 yards trench exsated. 33 yards trench drained. 250 yards trench deepened and graded. 85 yards trench improved. <u>E.5.a.5.5. to E.5.b.25.80.</u> 115 yards trench revetted. 105 yards parapet sandbagged. 90 yards parapet levelled. 210 yards parados 18" berm. 40 yards drain cleared. 110 yards trench deepened and graded. 210 yards trench firestepped. 235 yards trench duckwalked.</p>

18

Appendix

1060

Unit.	Strength	O.R.	Location.	Remarks showing employment &c.
1st.Pn.Bn. (continued.)				<p><u>CONSTRUCTING CONCRETE O.P. - X.19.c.05.80.</u> Constructing of Concrete O.P. " of boxing & erecting reinforcing irons. 29½ tons concrete mixed and thrown.</p> <p><u>CONSTRUCTING CONCRETE SHELTER FOR PUMPING PLANT. - V.28.b.4.4.</u> Placing iron rods for reinforcing in position. Throwing concrete. Work 80% completed.</p> <p><u>CONSTRUCTION OF CONCRETE PILL BOX. - E.3.c.0.7.</u> Placing iron for reinforcing in position completed. Throwing concrete. Work 98% completed.</p> <p><u>CONSTRUCTION OF CONCRETE PILL BOX. - E.4.b.9.9.</u> Placing iron for reinforcing in position completed. Percentage of work completed 100%</p> <p><u>In addition:-</u> Loading material at MARTYN DUMP & CAESTRE SIDING. Maintaining & repairing trenches. Rouge Croix Defences. Constn. & Improvement of Artillery Dugouts. Preparing salvaged iron for reinforcing. Unloading 3 trucks of concrete bursters. Supervision & erection of Divisional Baths - V.11.c.2.5.</p>

18

Following app. for. Lieut.Colonel,
C.R.E., 1st.Australian Division.

H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.

No.....
Date.....

Appendix

10
61

Returns

WEEKLY EMPLOYMENT AND LOCATION REPORT.

11th. August, 1918.

1st. AUSTRALIAN DIVISION. - C.R.E., 1st. Aust. Division Located at O.29.c.9.5. Sheet 62D.

18

U n i t.	Strength.	Map Location.	Remarks showing Employment etc.
1st. Fld. Coy. Engineers.	7 Off. 207 O.R.	W.12.c.1.2. (sheet 62D)	Company has been on the move during the week from STRAZEELE Sector to SOMME.
2nd. Fld. Coy. Engineers.	8 " 201 "	W.23.b.8.0. (sheet 62D)	Company moved from STRAZEELE Sector to SOMME. Reconnaissance of Water supply, R.E. Material, Roads, Railways etc. Salving material in (Sheet 62D) squares W.4.,5.,6.,11.,12.,17.,18., X.2.,3.,7.,8.,13.,14.,15.,16.,20.,21., 26.,27.,28.,29.
3rd. Fld. Coy. Engineers.	7 " 195 "	W. 7.b.5.5. (sheet 62D)	Reconnaissance of Water Supply, Roads, Railway, and Tramways in Left Brigade Sub-Sector.
1st. Pioneer Battalion.	16 " 870 "	W.17.c.8.9. (sheet 62D)	Battalion has been on the move during the week from STRAZEELE Sector to SOMME.

H. Q.
1ST AUSTRALIAN
DWL. Etc. 3.

No.
Date 11.8.18

W.A. Henderson
Lieut. Colonel,
C.R.E., 1st. Australian Division.

Appendix

70
62

WEEKLY EMPLOYMENT AND LOCATION REPORT.

18th. August 1918.

1st. AUSTRALIAN DIVISION.

- C.R.E., 1st. Australian Division located at O.11.a.0.7. (Sheet 62D.)

18

Unit.	Strength.	Map Location.	Remarks showing employment etc.
1st. Fld. Coy. Engineers.	7 Off. 207 O.R.	J.26.a.8.2.	<p><u>FRONT LINE.</u> Erecting Bomb stops and barbed wire in six Communication saps between enemy and our front lines at A.9.a.1.8. Two shelters erected, and 12 recesses for S.A.W.A. and Bombs excavated.</p> <p><u>SUPPORT.</u> 60 yards S.A. Fence erected. at S.P. A.1.d.0.6.</p> <p><u>ACCOMMODATION.</u> Dugout 4th. Bn. Hqrs. constructed at X.29.b.8.3. Two dugouts complete in tunnel at W.24.b.50.45. for Bde. Hqrs. also Two tunnels 6' x 4' driven 9'.</p> <p><u>CONSTRUCTING DUGOUT FRAMES.</u> 4 complete salvaged material.</p> <p><u>SIGNBOARDS.</u> Constructed and erected 270.</p> <p><u>LOCATING WELLS.</u> 120 located 43 notice boards erected on same.</p> <p><u>WELL WINDLASSES.</u> 7 Repaired, 1 constructed and erected.</p> <p><u>BECAUVILLE.</u> Formation repaired, damaged rails taken up and 11 new lengths laid. Additional work:- repairing road, Salving R.E. Material from ROSIERES Dump, General Salvage, Reconnaissance, Guiding Transport. Works handed over on 15/8/18 since when Company has moved out to rest area at J.26.a.8.2. Demolished 100' chimney stack at W.12.c.2.2.</p>
2nd. Field Coy Engineers.	7 Off. 207 O.R.	O.6.central.	Erecting water troughs. Salvage. Reconnaissance. Company moved into rest area at O.6.central.

Appendix

10/63

WEEKLY EMPLOYMENT AND LOCATION REPORT (continued)

- 2 -

18

Unit.	Strength. Off. O.R.	Map Location.	Remarks showing Employment etc.
3rd.Fld.Coy. 7 Engineers.	193	J.32.d.3.9.	Salving material from Copse at X.15.c.0.2. Locating and inspecting wells & obtaining samples from same in and around VAUVILLERS. Erecting Gas-proof doors, making furniture and repairing Electric Light Plant at Bde. H.Q. Windlass constructed over well at X.8.c.2.4. SUPPORT LINE :- from X.16.b.5.5. to X.22.b.8.3. Erecting 750 yards D.A.Fence. Erecting 60 - 2 men shelters at Coy. camp at X.14.c.5.8. Reconnoitring roads, Railways and Tramways etc. in Brigade Sub- Area Sector.

W.A. Henderson Lieut.Colonel,
 C.R.E., 1st. Australian Division.

Appendix

1064

WEEKLY EMPLOYMENT AND LOCATION REPORT (continued)

U n i t.	Strength. Off. C.R.	Map Location.	Remarks showing Employment and etc.
1st.Pn.Battalion.17.	780	P.10.a.6.8.	<p>Strong Point No.3. - S.25.a.2.3.) 130 yards excavated, " " No.4. (Sheet 62D. S.E.)) average depth 3'6".</p> <p>S.P.No.1. - A.1.c.1.6.) (Ref.sheet 62D. N.W.)) 187 yards earthworks. 150 yards wiring. S.P.No.2. - X.30.c.9.2.) (Ref.Sheet 66D. S.E.))</p> <p>S.P.No.5. - X.22.b.7.4.) (Ref.Sheet 62D.S.E.)) S.P.No.6. - X.22.b.65.70.) (Ref.Sheet 62D.S.E.)) S.P.No.7. - X.16.d.5.3.) 530 yards excavated, average depth 3'6". (Ref.Sheet 62D.S.E.)) S.P.No.8. - X.16.d.40.85.) (Ref.Sheet 62D.S.E.))</p>

ROADS.

All roads kept in state of repair.

W.A. Henderson

Lieut. Colonel,
C.R.E., 1st. Australian Division.

Appendix

10
65

WEEKLY EMPLOYMENT AND LOCATION REPORT.

1st. AUSTRALIAN DIVISION. - C.R.E., 1st. Australian Division located at Q.13.a.3.6. (Sheet 62D).

H. Q., 1ST AUSTRALIAN DIVL. ENGINEERS	
No.	25/8/18
Date	25/8/18

Unit.	Strength.		Map Location.	Remarks showing employment etc.
	Off.	O.R.		
1st. Fld. Coy. Engineers.	8	207	Q.22.d.5.4.	Company in rest area from 17/8/18 to 22/8/18. Training and recreation. Following work done in connection with operations commencing 22/8/18:- Dugouts built for Bde. Hq. at Q.18.Central. Strong Fix Point excavated and wired at R.24.a.0.0. Wire repaired at R.24.a.3.3. and R.24.c.7.2. 100 yards C.T. improved at R.23.b.7.1. Battalion Hq. and Dugouts constructed for 1st. XXXXXX Battalion at R.9.d.4.1. - 7.2. Construction of O.P. supervised at M.19.a.2.8. Existing dugouts being enlarged and rendered gasproof at R.16.d.5.5. 70 yards trench excavated at R.5.Central. Reconnaissance of Forward Area in connection with accommodation, water supply and existing bridges.
2nd. Fld. Coy. Engineers.	7	195	R.19.c.9.0.	Inspection by G.O.C., 1st. Australian Division. Repairing Bridge at CORBIE. Company moved from O.6.c.Central to Q.21.a.8.5. Company employed during operations 23rd. August on consolidation and wiring. Forming R.E.Dumps. Reconnaissance of Water Supply, R.E.Material, Roads, Railways and Accommodation. Transporting R.E.Material. Work as on 23rd. August being continued.
3rd. Fld. Coy. Engineers.	6	198	R.13.a.8.1.	3rd. Bde. Headquarters. R.7.d.4.3. constructing dugouts. Q.18.c.5.5. do do Q.20.b.1.0. do do <u>RECONNAISSANCE.</u> Roads, accommodation, Railways, Bridges, Water supply and Dumps in newly captured area. <u>D.H.Q.</u> Q.13.a.3.7. Building accommodation. Proposed Battalion Hq. - R.14.b.6.1. Building accommodation. Work cancelled shortly after being started. <u>3rd. Fld. Coy. H.Q.</u> Q.20.b.7.5. constructing dugouts. R.7.c.8.1. constructing dugouts. Salving R.E.Material.

Appendix

10/1
99

Unit.	Strength.		Location.	Remarks showing employment etc.
	Off.	O.R.		
1st.Pioneer Battalion.	18	768	Q.23.a.5.5.	<p><u>CONSTRUCTING STRONG POINTS.</u> 220 c.yards excavation with wiring. 200 yds.excavation. 450 yds.old German trenches consolidated - R.10.c.a.3. S.Ps. 1,2,2a,3 & 4 - 325 yards excavation, 230 yards wiring. <u>In addition:-</u> 4,800 bombs detonated. Salving wire - 53 coils concertina barb, 39 coils Barb wire. Road Maintenance - Roads patrolled and repaired PROYART avoiding tracks pegged and notice boards placed. Carrying parties - 400 yards concertina wire - 100 pickets. Advanced D.H.Q. - 14 "B" Type shelters.) 56 c.yards excavation) Completed. 4 'C' Type shelters) Constructing Artillery Dugouts. Loading parties - 5 tanks etc.</p>

W.A. Henderson Lieut.Colonel,
C.R.E., 1st.Australian Division.

Date: 8/18/56
No.:
H. Q.,
1ST AUSTRALIAN
DIVL. ENGINEERS.

Appendix

10

67

WEEKLY EMPLOYMENT AND LOCATION REPORT.

1st.AUSTRALIAN DIVISION. - C.R.E., 1st.Australian Division located at O.10.b.9.7. FOUILLOY (Sheet 62D).

H. Q. 18
1st AUSTRALIAN DIVL. ENGINEERS.
No. 00
Date 31-8-18

U n i t.	Strength.		Map Location.	Remarks showing employment etc.
	Off.	O.R.		
1st.Fld.Coy. Engineers.	6	210	Q.22.d.5.4.	<p><u>FRONT LINE.</u>- R.24.a.0.3. 80 yards trench improved. 150 yards existing wire strengthened.</p> <p>Bde.Hqrs. - Q.16.a.2.5. two dugouts erected and made Gas-Proof, shelves and table constr. latrines erected. Bn.Hqrs. - R.16.a.7.7. Made Gas-Proof. Bn.Hqrs. - R.16.d.4.4. Made Gas-Proof. Bn.Hqrs. - R.16.c.7.7. Made Gas-Proof. R.A.P. - R.16.d.Cent. Made Gas-Proof. Cellars improved and Made Gas-Proof at R.14.d.30.15.,, R.14.d.45.10., R.14.d.3.1., <u>Reconnaissance work.</u> Water supply, Railways, Bridges and Accommodation.</p> <p>Additional work salvaging R.E. Material and Carting same to 1st.Aust.Divisional Dump. Works handed over on the 27th. August, since when Company has been carrying out programme of training.</p>
2nd.Fld.Coy. Engineers.	7	171	Q.1.c.0.2.	<p>Company moved to camp at Q.6.c.0.2. Rifle, equipment and Gas helmet inspection. Re-organisation of L.G.Teams and inspection of guns etc. Section drill and Lecture on advantage of taking cover. Bridging, Map Reading and reconnaissance. Guards and Sentry. Afternoons spent in Recreational Training.</p>
3rd.Fld.Coy. Engineers.	7	202	Q.8.b.2.8.	<p><u>During 25th. and 26th.</u> The Brigade sub-sector was reconnoitred and reports on Bridges, Roads, Railways, Wells and Dumps were sent to C.R.E. Battalion H.Q. at L.34.d.4.2. was fitted with gas-proof doors. R.A.P. was constructed at R.5.a.0.0.</p>

Appendix

10/68

WEEKLY EMPLOYMENT AND LOCATION REPORT.

(Page 2.)

18

U n i t.	Strength.		Map Location.	Remarks showing employment etc.
	Off.	O.R.		
3rd.Fld.Coy. (Continued)				3rd.Bde.H.Q. at R.7.d.4.3. was improved. Accommodation at D.H.Q. at W.13.d.3.8. was completed. Company accommodation was improved and horse lines were sunk 2 feet and earth thrown up for protection against bombs. Company accommodation at R.23.a.4.1. was improved and dugouts were constructed for Bn.H.Q. at L.35.c.2.8. ¹³ A well was repaired at R.10.c.7.8. Furniture was made for 3rd.Bde.H.Q. at CERISY. Improvements were made to Bn.Headquarters of 9th., 10th. and 12th.
1st.Pioneer Battalion.	15	630	P.8.c.2.2.	<p><u>FRONT LINE.</u></p> Strong point dug at R.5.d.4.3. 150 yards C.T. dug - R.18.c. & d. 850 yards C.T. improved. 8 platoon posts dug. - M.14.& M.8. 400 yards concertina wire erected - R.36. Outposts wired from R.30.a.4.3. to M.25.d.4.0. do at M.25.d.4.0. for 300 yards. do from M.25.d.1.0. to R.36.a.9.1.
				<p><u>ROAD MAINTENANCE.</u></p> Main road through PROYART and Road to the canal near BRAY. River road from BRAY to MERICOURT along Canal bank cleared of debris - Shell holes filled and made passable for traffic. Main roads cleared R.27. - 28 & 29.
				<p><u>ACCOMMODATION.</u></p> Advance D.H.Q. - Q.13.a. 1 dugout 14' x 10' completed. 21 cupolas fitted and placed. 10 sheets C.Iron placed. In addition:- Construction of Artillery Dugouts for 23rd.Bde.A.F.A., 2nd.Arty. Bde., 12th.Arty.Vde. Salvage R.E.Material. 250 boxes Mills bombs examined and detonated.

W.A. Henderson Lieut.Colonel,
 C.R.E., 1st.Australian Division.

H. Q.,	
-1st AUSTRALIAN	
DIVL. ENGINEERS.	
No.	21.8.18.
Date.	

Appendix 10/69

Appendix 1170
Appendix
Original

1. The operations of the Aust. Corps are to be continued on the 15h. Inst.
 11. For this purpose the 4th. and 5th. Aust. Divisions are to assemble on the approximate line HARBONNIERES-CAIX on the night 13/14th. inst. The 1st. Aust. Division will be relieved by these Divisions on the night 14/15th. inst.
2. Relief will be effected as early as possible on the night 14/15th. inst.
3. On relief 1st. Aust. Div. will move to the HAMELET and GAILLY areas, with D.H.Q. at BUSSY.
6. Engineer and Medical Instructions will be issued separately.
8. Standing orders regarding march discipline, distances on the march and protection against E.A. will be strictly observed during the move.
10. ACKNOWLEDGE.

H.Q. Divisional Engineers,
1st. Australian Division.
13th. August 1918.

1st. Field Company,
2nd. Field Company,
3rd. Field Company,
1st. A.I. Brigade,)
2nd. A.I. Brigade,) for information.
3rd. Field Company,)

In accordance with above orders, Field Companies will move with their respective Brigades, and O.C. Field Companies will immediately get in touch with Brigades for particulars as to marching orders, Billets etc.

W.A. Henderson

Lieut. Colonel.
C.R.E. 1st. Australian Division.

Max Geary



Appendix XII
Original

Appendix No. 71

H.Q., Divisional Engineers,
1st. Australian Division,
11th. August, 1918.

Ref. Map HARBONNIERES 1/40,000
(Parts of 62d., 62c., 66e., 66d.,)

EXTRACTS FROM 1st. DIVISIONAL BATTLE INSTRUCTIONS No. 5.

1. The advance will be resumed today in conformation to the 4th. Canadian Division.
Zero hour will be notified later.
2. Boundaries will be altered to run as follows:-
 - i. Southern Divisional Boundary.
A.8.d.0.2. - A.4.Central - T.25.Central - T.21.Central.
 - Northern Divisional Boundary.
S.7.d.0.0. - Cross Roads S.8.c. - S.9.Central - S.6.Central - N.33.Central.
Alterations to take effect from Zero hour.
 - ii. New Inter-Brigade Boundary.
X.19.Central - Just North of LIHU WOOD - Cross Roads S.15.b. (to left Brigade inclusive) - BOVENT.
Alterations to take effect from Brigade reliefs during night 11/12th. instant.
3. The 2nd. and 3rd. Aust. Inf. Brigades will conform to the advance of the 4th. Canadian Division today.
4. During the night 11/12th. inst. the following readjustment will be made:-
 - i. 1st. Aust. Inf. Brigade will relieve the 2nd. Aust. Inf. Brigade and portion of the 3rd. Aust. Inf. Brigade on the frontage of the New Right sub-sector of the Divisional Front.
 - ii. 3rd. Aust. Inf. Brigade will take over the new Left Sub-Sector on a 1 Battalion frontage.
 - iii. 2nd. Aust. Inf. Brigade will be withdrawn into Divisional Reserve just West of LIHONS.

1. The First Field Company will relieve the 2nd. Field Company on the forward reconnaissance work of the Right Brigade Sector and will carry on with the reconnaissance of Area forward of a line from S.1.d.central to X.17.central.
2. The 3rd. Field Company will continue carrying on with the reconnaissance as the line moves forward in their Sector.
3. The 2nd. Field Company will take over the preparing of all wells with windlasses etc. including HARBONNIERES up to line S.1.d.central to X.17.central, also making necessary provision for watering horses.
4. Close liaison will be kept with Brigades so that any work on roads to make temporary passages etc. if required, may be carried out immediately.
5. (a) The C.O., Pioneer Battalion will provide for patrolling the roads in the Divisional Area forward as the line moves, and will keep parties available for repairing same. Arrange for party to clean up, remove and bury any animals along road.
(b) Two Companies will be made available to work VILLERS BRETONEUX - ROISIERES Railway. Cleaning up line, removing broken rails and preparing permanent way for Railway Companies to follow on and complete. Work to be commenced at GUILLAUCOURT and work back along line until the parties working forward are met.

/6. Transport of

- 6. Transport of Field Companies and Pioneers not required for other work are to be used in removing R.E. Material ~~from~~ ROISIÈRES from Dump to Corps Dumps in W. 7. d. and Q. 27. c.
- 7. The usual Daily Reports will be forwarded to C.R.E.'s office showing progress of work.

W. A. Henderson Lieut. Colonel,
C.R.E., 1st. Australian Division.

Distribution:-

- Copy No. 1. to G.S.O. 1.
- " No. 2. to C.E., Aust. Corps.
- " No. 3. to 1st. Field Company.
- " No. 4. to 2nd. Field Company.
- " No. 5. to 3rd. Field Company.
- ✓ " No. 6. to 1st. Pioneer Battalion.
- " No. 7.)
- " No. 8.) War Diary.
- " No. 9.)
- " No. 10. File.

H. Q.	
1ST AUSTRALIAN DIV. ENGINEERS.	
No.	LS 494
Date	11.8.18