

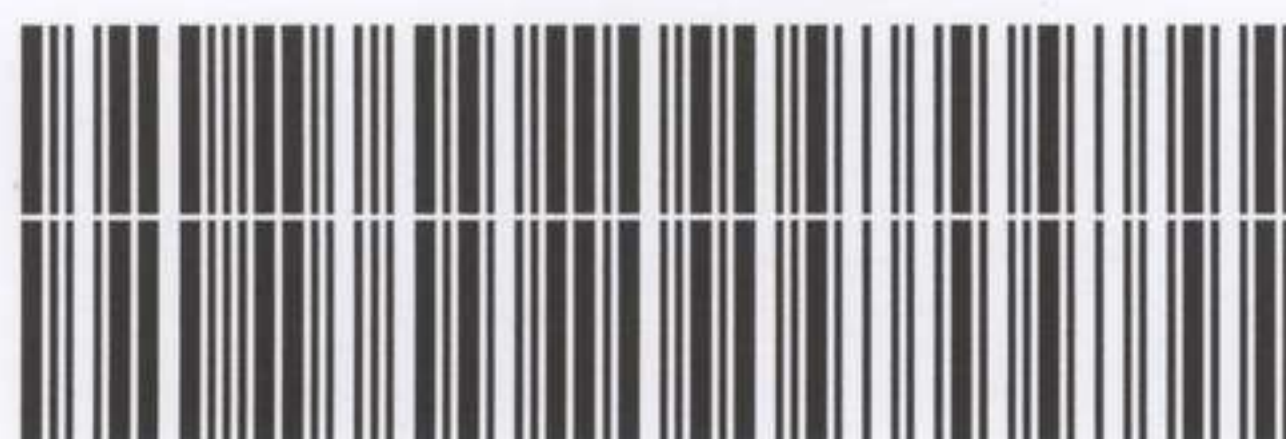
AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Signals

Item number: 22/1/8

Title: Assistant Director Signals, 1st
ANZAC Corps and Assistant Director
Signals, Australian Corps

December 1916



AWM4-22/1/8

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

INTELLIGENCE SUMMARY

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A D Signals 1st Army Corps
December 1916

Place	Date	Hour	Summary of Events and Information	VOLUME X	Remarks and references to Appendices
HEILLY	6th	11am	<p>War Diary of A D Signals Separated from that of Corps Signal Co. consequent on reorganization involved by G H Q letter OB/989 of 27-11-16</p> <p>A D Sig holds conference of all Divisional Signal Coy commanders to formulate a scheme for burying cables on Corps Front. Scheme was drawn up together with covering memo and submitted to B G G S who approved and asked for copies of tracing and memo to forward to all Divisions and Corps Heavy Artillery</p> <p>B G G S advises that trench wireless sets be pushed forward to serve Battalions in line, instead of being kept with Bde H Q - A D Sig undertakes to have sites recommended, and to consult wireless officer as to feasibility of proposal -</p>		<p>Appendix 1</p>

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	6 (cont)		Settled to keep Corps Wireless Directing Station near its present position at Yark Trench, instead of moving it to Div HQ at Bernafay Wood as suggested - Letter drafted instructing Right Div to get necessary dug out constructed. D.T.O. asks for telephone line Quarry siding to Longueval. O.C. T.I. Section directed to survey, with view to running cable under flange of rail of Dreauxville.	
	7		AD Sig S 14 Corps places at our disposal 10 proposed cable Route Guillemont-Ginchy on visiting Montauban find that road widening operations had greatly endangered French Permanent ("Liby") route Pommeux Montauban, leaving poles unsupported on road, and also "Red" Iron Route O.C. K Coy directed to send all available men W 18 and	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	7		<p>Cont 52 A.I. Sections the following day to get routes moved back -</p> <p>Found work of transferring lines and exchange to Montauban</p> <p>Dug out proceeding satisfactorily -</p> <p>AM Section up at Calles in Montauban - 4th Trench</p> <p>Route localized as earthy in case of 17 p axis between</p> <p>6 & 7 boxes - Directed tests to be continued further,</p> <p>with a view to relaying necessary sections on this</p> <p>Route -</p> <p>Several men of Construction Section at Vivier hill</p> <p>reporting Sick -</p> <p>Changing leads into Dis Office at Pommers, and cutting</p> <p>out test point in Corps Dug out proceeding.</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	7	Cont	Reply sent to letter from D.D. Lf 4 Army asking for information as to schools and instruction being carried out. Seen and approved by B.G. G.S before despatch. Ask Staff to arrange to provide each forward Div Lf Co with 2 G.S wagons (complete turn out) for carrying cable to forward area for buried routes -	Appendix Schools 2
	8 ^u		At Humbert & Waking party at Montauban telephones there is no possibility of moving French route back, but that a new route will be repaired - After consultation with D.D. Lf 4 Army, and OC 4 TCF ask CE to assist. CE issues instructions that all ditches dug by road construction party on main stg - Montauban road are to be diverted	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	8	Cont	<p>to give 6 ft clearance to all poles - In view of above only diversions of route where poles are in worst state are proceeded with, and work of staying and fixing existing poles proceeded with -</p> <p>Call up CRE Road Circuit on phone and explain situation to him - He agrees to cooperate by filling in ditch round poles and making diversions to give 6' clearance</p> <p>Stall, on application, agree to detail 2 G.S. Wafers (complete turn out) from 1st Div to aid for Sig Coy of each division in front line for purposes of carrying cable forward -</p> <p>Work on dug out at Yank Trench stopped owing to withdrawal of 17th Tunneling Co - G.S. informed and</p>	

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Additional Anyac Wireless Subsection arrives strength 80R arrives
asked to take action

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Appendix 3

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	8	Col.	Pommiers Exchange Closed and Montauban opened Argac Corps, 50000 4 Army, 50000 all Divs and CMA Notified accordingly Piper Officer reports 6 birds lost from Right Div during past week - Reported to G.S. by letter - Very wet day with fog - 50000 Left Div asks for direct cct his HQ to his reserve Bde at Mametz - Arranged for - Visit 2 nd Aust Div Missed ^{Vignacourt} and see G.S. regarding running of Divisional Signal School - Visit that Divn Signal School & lesselles, but find nothing going on, Instructors being sick -	
	9			

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	10		<p>Memorandum to G S on Suggestions for Running Division Schools for Signallers. Copy attached -</p> <p>Completion of lines from R.F.C. Central Wireless Station near Pommiers - Cets provided include one to Camps H.A. Exchange Vivier Hill, and one to each of 69, 14, 3, 62, and 73rd H.A. groups, a 10-line board having been fitted at Wireless Station -</p> <p>Lt Aust Div asked to clean up lines about their Div H.Q. at Ribemont, and to remove disused lines -</p> <p>Left Div (1st) start work on buried scheme No 9 Sect -</p> <p>Pigeon Class from Lt H.A. Div collected and taken to Beccordel -</p>	Appendix 4

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	10		<p>DD Lys 4 Army telephones that G H Q have agreed to provide 3 operators and an instrument for establishing an office at Quarry - Q asked to arrange for necessary accommodation to be provided there -</p> <p>Arrange with O/Ly C H A as to the work to be carried out by C H A in connection with buried scheme -</p> <p>No work going on on York Trench Day out -</p> <p>Letter to Lys Divs and C H A re labelling of lines in buried Cable Scheme Trenches -</p> <p>5th Div say they can find no men at present for buried Cable scheme - Referred to B. G. G. S.</p>	Appendix 5

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	11/1		Visited 4 Div Signal, and consulted GSO I as to formation of Divisional Signal Schools, and visited a Brigade Class. These are being run as Battalion classes under supervision Brigade Section Officer - Represent to B.G.G.S. that work is still suspended on York Trench dug out - He telephones Division who undertake to proceed with work forthwith - Lt Picken returns from Montauban having completed his work there -	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	12 ^u to 14 ^u 14 ^u		<p>on Lick List.</p> <p>o.c. K to perform duties of A.D. Lys.</p> <p>Report to Staff on Work Done by Capt Lysals from 9 Nov to 8 Dec /16. Copy attached</p> <p>Letter to G suggesting removal of Trench Wheeler's Sets from present Brigade Hd Qrs to positions further forward N 31 b 31 and N 33 C.8.2. Sets being of little use in present position - B.G.G.S agrees, and orders Divs to prepare dig out.</p> <p>Report to B.G.G.S that work not yet commenced on York Trench Dig out, and ask him to take action -</p>	<p>Appendix 6</p> <p>Appendix 7</p> <p>10</p>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	14	(cont)	Shelling during afternoon at Pommiers - At dusk Blue Route brought down for about 5 bays near Dv HQ - 52 AL Sectn ordered to repair at dawn. Temporary connections for CUA made by joining CUA 2 per to Montauban Ex, & splitting from lines at Montauban & bringing them on to Luchamp. RFC Central Wireless Luchamp forms another alternate route to all pumps, in accordance with agreement that Luchamp would be available for this purpose in case of emergency.	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	15	14	<p>Return to duty</p> <p>1.30p Lines repaired on Blue Route and normal connections restored.</p> <p>Agreed with O.C. Div 1st A.D. to slight alteration in buried scheme in Left Div Area, viz to eliminate the junction point formed by Sections 9, 27, 14, 10, on account of supposed position & constant shelling there, and to form the junction point for 9, 27, 14, 11 and 23 at the head of Tunnel S 12 to 7.8, where a big dry out will be constructed - This will do away with Section 10</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p>and necessitate alteration in routes of 9. and 14 - This an advantage as it brings them over higher and drier ground - Spoke to B.G.G.S about alteration and he concurs. Direct Lt Vrench 52 A.C. Section to live at Montauban so as to be near his work and bulk of Section - Direct Lt Walls to confer with OC "O" A.A. Battery Montauban as to reported faults in his comm. Lt Walls reports leading in there very untidy and much out of order and past repair and therefore probable cause of complaint -</p>	

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Ask D.D. Lp 4 Army for new 15 line board

or
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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	16		<p>Several faults on lines in morning, and find steps being taken to rectify same unsatisfactory - On investigation find delay due to various causes at both ends - Issue memorandum for future guidance on subject (Attached) -</p> <p>Daily Test Table and Siemens Diary not being kept in Corps Signal Office - Order same to be resumed forthwith</p> <p>Visit D.D. Lip to Army and Confer on subject of Instructions for proposed Corps Signal School - D.D. Lip agrees if possible to provide 1 Officer and 1 NCO for purpose by beginning of January</p>	<p>Appendix 8</p>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	16 (cont)		<p>2nd Div ask for various equipment for their Disposal School - List forwarded to D.D. Lipo 4 Army with recommendations.</p> <p>Remarks -</p> <p>Instructions to O.C. Coy for maintenance of 'O' Battery AA exchange at Montauban and lines from latter to AA Section Baginthe and Longueval. (D.D. Lipo Letter 589 of 16/12/16)</p> <p>Work reported proceeding well on York Trench and Wireless Directing Station Day Out.</p> <p>London Gazette 14/12/16 Shows Military Medal awarded to 34950 Lapper J. Rogers. RE GQ Cable Section for gallantry.</p> <p>Cops Commander asked to present same.</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	16 (cont)		Letter and tracing to G showing proposed alteration to siting cable trenches in Left Div Area - Report by letter to 'A' Staff recommending removal of J. T. F. WALKER RE from Signal Service as unsuitable on account of want of energy and interest in work	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	17		<p>Went over lines in Fricourt district -</p> <p>Instructed OC GQ Section as to picking up many derelict lines, and re-constructing several that were untidy - Also arranged for clearance of all Cops Cables off permanent routes.</p> <p>Sigs AYA asks for 4 test boxes for buried route - Promise 1 and remainder to follow as soon as completed -</p> <p>Decide better position of Fricourt test box on Blue route owing to inaccessibility -</p> <p>Very heavy DRLS in evening from AYB - Request Staff to attend while mail is opened under 4 Army Routine Order 370 - Mail opened in G Office in presence of Lt Col Reynolds -</p> <p>151 Packets opened, of which 65 judged to have improperly sent by DRLS -</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	1845		<p>Sigs AYO asks for Separate Divisional Signal Office in Vignacourt - Request referred to D D Sigs 4 Army, who undertakes to look in to matter - Write to Sigs AYO to ask him if he can find suitable accommodation near existing Army Office.</p> <p>O/Sigs CHA having represented that present AYO moves to Ribemont and AYO to Vignacourt - Accommodation for Signal Office and Test Office at Vivier Mill is too small. Self, O/C K Coy and O/C Sigs CHA meet at Vivier Mill to consider possible extension of premises - Arrange to ask for 2 Ammunition Huts to be erected and select site - On return were received from O/Sigs CHA stating that B G CHA refuses to allow hut to be erected in garden at Vivier Mill - This being only possible site. Nothing further can be done.</p> <p>In reply to query from D D Sigs as to amount of cable required for running, reply 720 per mile. Appendix 9</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	19 th		<p>Visit 1st Aust Div at Pommers - Find burying cable work proceeding slowly - Difficulty of continuity of labour, see G Co I and ask that burying labour party may be told off permanently - G Co I promises to arrange as far as possible -</p> <p>Find entrances to Montauban dug out falling in - Party from 1st Div RE attending to timber up -</p> <p>Instruct 52 AL Section that 16 wire permanent route Montauban Montauban - Bagentia be increased to 24 way route</p> <p>Visit 5th Aust Div at Bernafay - Burying progress very slow owing to labour shortage - Alternative plan cable route to Rth Brigade practically finished - Built mainly by SD Ldn</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	19		Angac Corps RE Workshops to make 20 Tree Boxes for buried boxes - Specimen sent to Workshops as pattern.	
	20		Reference letter from L Army re K.B. Communications, decide that Balloon should have direct lines to Batteries from Balloon forward exchange - LIA CLIA prefers to extend these exchanges and make them "forward Battery exchanges" available for front - Battery use in case of emergency - GOCRA Corps does not approve of this and considers the KB lines should be entirely separate - Draft for reply to L Army to this effect.	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p>20 (cont) Quarry Mine blown up by shell fire and telephone disappears -</p> <p>Heavy hostile shelling all day - no main lines broken however -</p> <p>Letter to Staff to propose removal of Bomb School on St Georges Hill in F 96, as same is continually breaking on routes there -</p> <p>Pigeon class from 4 Aust Div assembles at Becondel - 24 men from Ballins</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	21 st	1130am	<p>B.G.G.S visits Signal Office and Company Offices -</p> <p>Letter from D.D. Lip L. Army asking what units require Position Calls - Consult Staff reply sent that if any Calls are to be allotted that every Station within 3000 yards of front line having a telephone (including O.P.'s) and every station working to the same must have a Position Call</p> <p>Amplifier and 2 Induction Buzzers installed on Left Div front - Each Buzzer at a Coy HQ & Qs working to amplifier at another Coy HQ to which Battle line can be maintained - Range over 1000 yards, and Buzzers working well -</p> <p>Amplifier Cheese Road N 26 a 2. 9.</p> <p>Power Buzzers 1. Goodwin's Post N 20 b 7.0 - 2. Fvitz's Folly N 20 D 2.3.</p>	

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Appending
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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	21 st	(Cont)	Letter from D.D. Lipo to Army suggesting experiments in working Earth Induction Buffers from front line to Supporting Artillery, and asking opinion on this front. Also how far use of telephones in front line can be restricted - Consult B 995 and reply sent that work could only be carried out from front line to Batteries by using transmitting station, and suggesting to use them from Coy HQ to Batteries, where there is an Artillery liaison officer, and whence rapid communication should be possible. Stating also that orders can be issued to restrict conversations over front line telephones, but no other restriction feasible on this front.	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	21st	1st	Caps Wireless Office reports dug out for Wireless Direction Station at York Trench found on well - Instructions for D.R.C.S. drawn up and submitted to G.S. for approval -	Appendix 10.
	22nd		Discuss question of Kite Balloon Lines with B.G. Heavy Artillery - Latter agrees to represent to G.O.C.R.A. the economy in material and manpower ^{personnel} to be gained by combining Kite Balloon Lines with Heavy Artillery System. On visiting Left Div Artillery, B.M. states want of magnets telephones for pumps, and Exchanges - Arrange to send	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p>4 trench telephones, 4 Maputo Units, and 56 Switch Units for use of 1st & 4th DA's (Left DA front)</p> <p>Suggest to Staff putting trench Set on Left Divn front in an existing dug out at N 22 A till the dug out in N 31 & 23 is ready.</p> <p>Report to B.G. G. S that no work has been done on York Trench dug out for 2 days.</p> <p>Go over New 24 wire route Montauban - Bagentini built by 52 A.I. Section - Order more Stays to be put on at Bagentini End -</p> <p>Telegram to D.D. Sir 4 Army pointing out requirements in D3 Cable, D3 phones, and Armoured Cable for buying</p> <p>30 line board sent to Left Div for upballation as Corps Store at Left Div HQ.</p>	<p>Appendix II</p>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	23 rd		<p>1st Div School at Chateau Triancomb Connected to Vignacomb Exchange on line provided by 4 Army Signals - Telephone Supplied by Corps Signals -</p> <p>4 Army Signals undertake to provide connection from 2nd Aust Div Reinforcement Training School Bussey to their Dacoms Exchange -</p> <p>Ask CCE Left Div to push on with York Trench Dig out as fast as possible - Work proceeding very slowly very heavy Gale - much trouble with contacts on Lily Route during day</p> <p>Draft instructions for Labelling Lines on main Buried Cable System - Submitted to Staff -</p> <p>11 am 5 Aust Div relieved by 2nd - Dillo Bernafay Wood 11 am 5th AD to Ribemont -</p>	<p>Appendix 12</p>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	24 th		<p>Work of clearing ductile cables about Furcort proceeding - Work on lined Cable Scheme by 1st Div making Slow progress owing to shortage of labour - Latter reduced to about 140 men - Weekly progress Report to Staff Visit Right Div and find arrangements by 2nd Aus Div for buying work well in hand - Shortly after dark Railway smash on main line near Edgchill brings down all Permanent Route on railway - One H Pole completely broken and several bars down on either side - Request DAR to send party to assist W18 who proceed at once, but find</p>	<p>Appendix 13</p>

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	24	(cont)	<p>impossible to do anything before daylight -</p> <p>Staff informed and asked to reduce traffic -</p> <p>Sig Officers 1st 2nd and 5th Divs and Heavy Artillery</p> <p>instructed to reduce telegraph and telephone traffic as far as possible, asking their Staffs to assist in this -</p> <p>DD Sup & Army undertakes to ask French to replace broken pole -</p> <p>Traffic dealt with satisfactorily, using L. poles on top pole route, 2 loaned by DAK on Albert Road Route and 1 pair on Road South of Railway</p> <p>B G G S asks for diagram forward lines for Defence Scheme -</p> <p>Pigeon Class from 4 units to return to units</p>	<p>Appendix 14</p> <p>Appendix 15</p>

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	25.		<p>W 18 Section and party from 4 Army Signals out from daylight repairing Railway Route breakdown Cable Diversion built out in fields Round broken pole and 2 poles on either side Strongly Stayed - All wires through and working before noon</p> <p>1pm Normal traffic resumed - Staff and Surgeons informed</p> <p>During morning breakdown occurs on Blue Route, Localized between Pommiers & Vivier hill, and finally discovered that at Mametz roof had blown off a hut and broken down one bay</p> <p>Repairs effected by W 18 Linemen and party from GQ Section.</p>	Appendix 16

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
26th			<p>Start sending up Stores for new 24 line permanent route to be built from Montauban to Right Div HQ Bernafay Wood by 52 A.L. Section - Work Commenced. Route to be built as a continuation of Green Route with a view to being eventually carried on to Longueval -</p> <p>1030 - Corps Commander inspects Signal Office and men of K Signal Coy and W 18 available for parade Corps Commander directs that in view of pressure in Signal Office at night, an order be issued directing that no telegram be sent after 9 pm which can equally well be sent the next morning - Arrange with Bq 95 accordingly</p>	

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(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
26	(Cont)		<p>OC Lyp AYA States there will be great difficulty in running lead covered Cable in Delville Valley Tunnel as arranged, owing to the Size of the drums and difficulty of getting them through Tunnel - Arrange to send up brass armoured lead wire. Lyp AYB asks for 16 miles Armoured lead & 8 miles 4 pair lead with 6 test boxes on 27th to be sent Bernafay Wood - Ask Staff for loan of 10 G. S. Wagons following day for transport of Cable Etc to Densious - Promised to be at Vivier Hill 8 am on 27th</p>	

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

INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	26		<p>Progress on York Trench very slow - St Walls reports only 2 men working from 11 am to 1 pm - Reported W.B. 9.9.8 -</p> <p>Following amounts of Cable and telephones authorised for supply towards completing deficiencies of formations, to be drawn by them from Vierer hill</p> <p>1st A Div - Cable D 1 miles 1, Ditto D 3 miles $3\frac{1}{2}$, Telephones D III 8</p> <p>2nd A Div - Stearns telephones 3</p> <p>5th A Div. Cable D 1 miles $4\frac{3}{8}$, Ditto D 3 miles 10, Stearns Telephones 7.</p> <p>Heavy Artillery Cable D 1 miles $\frac{2}{6}$, Cable D 3 miles 18 -</p>	

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INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	27		<p>13 G.S. Wagon Loads of Cable and Stores Sent up to Division HQ Etc - Visit 2nd Aust Div Div Signal School - Find work now proceeding very satisfactorily - Still a few items of instructional Stores required - Good class room obtained at Flesselles - Visit 4th Aust Sig School at La Chaussee - Class just assembling - Accommodation not very satisfactory - Obtain list of instructional Stores required - 2nd Aust Div Reinforcement Training Camp connected to Daours Exchange by 4 Army - We supply telephone - Cops Rest Station (Bellevue Farm) connected to Forecourt Exchange Same line as main Dversing Sta We supply telephone</p>	

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or
INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
1	27	(Cont)	Repairs effected to Montauban - Bazentin permanent route, which had been damaged by Shell Fire close to Bazentin previous day - OC 52 AL Section reports all poles (except 2) erected on new Montauban - Bernafay Permanent route - B. G. G. S. Rules no pigeons to be sent up to line at present owing to continuous bad weather - B. G. G. S. decides that when an exchange fails to get attention from out-telephone subscribers no lineman is to be sent out if line has been tested and found OK at morning test - This the result of linemen having been frequently sent out who have found failure due to inattention.	

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence
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will be prepared in manuscript.

INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	27	Cont	Linemans Course assembles at LTCC - Petit Canon - 4 Candidates from K Coy and 4 from Diversions - LTCC Supply 8 Linemen to units as Substitutes.	
	28		Work Continuing on buried Scheme W18 Leading new 32 line route extension from Blue Route into Vivier Hill. 1300 Corps Commander inspects Anyac Wireless Section at Fricourt. York Trench dug out. Work proceeding well, more labour having been turned on - Lt Picket sent to 2nd Div Signal School to assist in Fullerphone instruction for the day.	

WAR DIARY

Army Form C. 2118.

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INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	28		<p>Order received from Lt Spicer, Supernumerary Officer 1/2 Pigeons to be transferred to 15 Corps Signals. Arranged with D.D. Sig 4 Army that this Officer should join P Coy on 31st D.D. Signals 4 Army telephones he wishes 1 detachment of 52 AC Section sent to 15 Corps Signals on 30th inst. Arrange with O.C. 52 Sectn to send 1 Sgt & 14 OR 4 Long Drivers & 2 Lorries, D.D. Sig informed accordingly. Quarry Office reported now splinter proof and ready for occupation. By arrangement with B.G.G.S. no pigeons to be sent up to Brigades till further notice Pigeon Class from 5th Aus Div commences work at Beccordel</p>	Appendix 17 ⁰⁰

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INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	29		<p>Following work proceeding -</p> <p>Buried Cable Scheme</p> <p>York Trench Signal and Wireless Dig Out -</p> <p>Montauban - Bernafay Perimeter Routes -</p> <p>Leading in Vivier built and alterations Montauban</p> <p>Cpl Weekes (DR) sent to Meauthe to take over charge</p> <p>of Pipron Lofts from Lt Spicer -</p> <p>Staff asked to provide suitable Dig Out for Amplifier</p> <p>Set in Cheese Road, especially as it is likely to be</p> <p>desirable to install proper IT there - (T 594)</p> <p>Staff asked to issue instructions as to Secrecy</p> <p>Regarding installation of Amplifier on Corps Front (T 596)</p> <p>Lt Sargent, Supernumerary Officer for H.A.G. temporarily with</p> <p>WW Cable Section Lick to Hospital</p>	<p>Appendix 18</p> <p>Appendix 19</p>

WAR DIARY

Army Form C. 2118.

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or INTELLIGENCE SUMMARY

(Erase heading not required.)

25

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p>29/Nov Operators for Quarry Office (OWE) sent up there by rail -</p> <p>Arrangements to extend AHO-Fucourt line there, leaving FT intermediate -</p> <p>Staff asked to provide 3 adentries for delivery purposes there -</p> <p>Lt's AYB states great delay in his getting hanging cable moved up by Dreamville to forward area, and fatigue parties kept hanging about all day - See CP Staff who promise to ask DTO to give Lighthab priority truck accommodation as far as possible</p> <p>7 names to DAR for Kneman's Course Headm -</p> <p>5 accepted. 1 AYD, 2 AYE, 2 K Coy</p>	

WAR DIARY

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or INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	29 (cont)		Lt Col DAR asks us to Superimpose a AVO - Vignacomb tp pair for direct horse working - agree but DAR remain intermediate on this line, and keep it extended to 29 Div - Circuit working OK.	
	30 th		Visit 2nd Aust Div and in consultation with OC agree to minor variations in route of Sections 18 and 23 Buried Scheme - Work on 23 stopped by hostile shelling, it being a very clear day - To be resumed tonight - Consult Div Staff as to positions of Trench Wireless Set and Amplifier proposed for Right Div Front - Positions chosen but not definitely determined owing to prospective side-slip of Div front.	

WAR DIARY

Army Form C. 2118.

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or INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	30	(Cont)	<p>As result of very wet night No 5 Test Box on York Trunk Route fills up with water over terminal boards and causes considerable trouble - Cleared temporarily by baling out, but impossible to ascertain extent of damage to insulation of cables in multi core lead - many pairs showing faulty - PCC wireless Stn in T 8 a Central has to be withdrawn owing to being out getting flooded out - Staff informed Fricourt dry out occupied by Wireless Section flooded out and uninhabitable - CE arranges to provide an Abincomb hut to be ready by Jan 1st.</p>	Appendix 20

WAR DIARY

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will be prepared in manuscript.

or INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	30	(Cont) 230h	Telegraph Office opened Quarry - Working OK to Aus with Fricourt intermediate - 3 operators and Set from GWP - Staff provide 3 foot orderlies for Office - Pigeon class sent back to 5 Div on termination of course -	

WAR DIARY

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INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	31 st		<p>Lip AYA reports Earth Induction Buggy on Left Disjoint at N 20 D 3.3. destroyed by Shell fire during night -</p> <p>Inform Wireless Officer and new Instrument installed.</p> <p>Weekly Progress Report on buried Cable Scheme to Staff</p> <p>Instructions by telephone from D.D. Lip & Army</p> <p>That 52 A L Section is required for return to 1st Army forthwith -</p> <p>Instructions by phone to Lt Vrench (OC 52 A L Section)</p> <p>That he and all remaining men to concentrate at Vencer Hill on Jan 1st -</p> <p>OC W 18 Sectn directed to send 1 H Co and 10 men, also 3 mi -</p> <p>- men to Montauban via 52 A L Sectn.</p>	<p>Appendix 21</p> <p>42</p>

WAR DIARY

Army Form C. 2118.

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INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	31 (Cont)		<p>W 18 also to find 3 men in for Fvicomat via 52 AL</p> <p>Instructions to Div and Heavy Artillery Signal Officers regarding procedure in case of telephones sent to Corps Signal Workshops for repairs -</p> <p>Consult B.G.G.s as to position of French Wireless Set and Amplifier on Right Div Front - Agreed that accommodation for Amplifier be proceeded with at Batta HQ at N33638 as this more important at present than Wireless Set. - Further consideration to be given to selection of site for latter.</p>	<p>Appendix 22</p>

WAR DIARY

Army Form C. 2118.

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will be prepared in manuscript.

INTELLIGENCE SUMMARY

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	31		<p>90CRA asks for telephone communication to be provided to all DAC's who are establishing Camps about Witmancourt and Buire - Refer to B.G.G.S who does not approve proposal. Considering Telegraph communication from Brigade Signal Office in villages named should be sufficient for purpose -</p> <p>Tracing showing approved buried Cable Scheme on Corps Front attached -</p> <p>John G. Bell</p>	<p>Appendix 23</p> <p>44</p>

25
H.Q. I Anzac.
No. 175/239.



1st Australian Division.
2nd Australian Division.
4th Australian Division.
5th Australian Division.
B.G., H.A.

BURIED CABLES SYSTEM.

The attached tracing of $\frac{1}{10,000}$ map shews the general scheme of buried cable routes approved for construction on this Corps Front. Notes by the A.D. Signals in explanation of the tracing are annexed herewith.

The Corps Commander directs that the scheme as approved by him will be definitely adhered to.

In order to enable the work to proceed continuously I am to say that a permanent party for construction, of at least the strength recommended by the A.D. Signals, will be told off by each Division.

The A.D. Signals will arrange for the collection of weekly progress reports on the work in each Divisional Area.

Sgd. E.H.Reynolds,
for Brigadier General,
General Staff,
I Anzac Corps.

8/12/16.

BURIED CABLE SCHEME.

1. The attached tracing of ¹10,000 trench map shows the general scheme of buried cable routes to be constructed on this Corps Front which has been drawn up in consultation with the four Divisional Signal Company Commanders.
2. The blue lines represent the main cable trenches, and the blue circles the central junction or switching points.
3. Red lines alongside the blue denote portions already completed.
4. For convenience of reference each section of trench between junction points has been given a number.
5. Sections 11, 12 and 13 represent cable routes it is proposed to run in the tunnelling being constructed up the Left Division Area. The route of these is approximate only.
6. All trenches to be 6 feet deep, and filled in.
7. Dug-outs to be constructed at each junction point, and manned by Signal Service linemen assisted by Artillery linemen to be detailed for the purpose.
8. Thirtytwo pairs of Cables to be run in all sections.
9. Test-points to be made every 440 yards.
10. Sections 25 and 26 to be constructed by Corps Heavy Artillery. All other trenches and all dug-outs to be constructed by the Division in whose area they lie.
11. Where a section crosses the Divisional boundary, cables to be laid in it by mutual arrangement between Divisions concerned.
12. Routes of trenches to be carefully marked by iron pickets.
13. The routes have been designed to serve existing Infantry and Artillery Headquarters Exchanges etc. as far as possible.
Connections from these points to the buried system to be, wherever possible, run to a junction point, and not cut into a trench section, and to be made by short trench or poled cable spurs.
- m14. Each Divisional Signal Company to have a digging party of 250 men with complement of officers permanently detailed for this work while the Division is in line. This the minimum amount of labour required, and to be supplemented by any other that can be made available.
15. Cable to be provided by A.D. Signals, as available, from time to time.

16. The general instructions for allotment and maintenance of Cables to be as laid down in G.S.Circular No.34 of 29/11/16.
17. The routes shewn are general and subject to necessary modifications to suit the configuration of the ground etc.
18. The main forward arteries up each Divisional area to be undertaken first, then the lateral connections.
19. Instructions regarding the labelling of lines in these trenches will be issued later.

(sd) R. M. Powell

Lieut. Col. R. A.
A.D. Signals 1st Augae Corps

6th December,
1916.

25
Copy for War Diary



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Appendix No. 2.

D.D. Signals,

Fourth Army.

(Through Anzac Corps "G".)

1. In reply to your letter 548 of 5th inst.

There is at present no Corps Signal School being run in this Corps. Pigeon classes are, however, held for Divisions out of the line.

I am anxious to get a Corps School going for the higher training of N.C.O's. and men of Divisional Signal Companies, and for the instruction of Artillery personnel. Up to the present this has been impossible owing to:-

- (a) Difficulty of accommodation.

There is none available at Corps Headquarters, and a school will have to be run at a separate place with a Staff of instructors (Officers and N.C.O's) detailed specially for the purpose.

- (b) Difficulty of providing these Instructors.

Owing to the enormous amount of work to be done in this forward area, and the very difficult conditions existing, the necessary staff cannot be found from Corps Signals, and my Staff do not approve of their being drawn from Divisions.

If an Officer qualified to take charge of the School and the necessary assistant Instructors can be sent the accommodation difficulty can be got over.

2. One Division has a Signalling Class at the Divisional School at which all branches of visual signalling, including aeroplane work, buzzer telephone and linemens' duties are taught. In other cases Battalion signallers carry out training during rest under Brigade Signal officers, the Divisional Signal Officer supervising.

There is difficulty in obtaining instructors outside the Divisional Signal(~~Company~~) Company.

It is impossible to hold Divisional classes while Divisions are in line owing to frequent reliefs. Classes during rest are necessarily very brief.

It is hoped to get a Divisional School running in each Division for the instruction of Battalion Signallers, but the conditions on this front do not give the facilities for this purpose previously experienced.

Amorall

Lieut. Col., R.A.,

7th December,
1916.

A.D. Signals I Anzac Corps.

Appendix No. 3,

MESSAGES AND SIGNALS.				No. of Message
Prefix	Code	Words	Charge	This message is on a/c of: <i>apker dur 3</i>
Office of Origin and Service Instructions.		Sent		
		At		Recd. at
		To		Date
		By	(Signature of "Franking Officer.")	From
				By
TO { <i>1st Angac Corps</i> <i>DD Lys 4 Army</i>				
Sender's Number.		Day of Month.	In reply to Number.	AAA
* <i>RP 154</i>		<i>8</i>		
Additional wireless Sub-Section Strength 8 OR (for allotment 5 Australian (Dw) arrows today AAAA addressed 1st Angac Corps Repeated DD Lys 4 Army				
From <i>AD Lys 4</i>				
Place <i>Angac Corp</i>				
Time				
The above may be forwarded as now corrected.				(Z) <i>R. M. J. F. M. 11</i>
Censor.				Signature of Addressor or person authorised to telegraph in his name.
* This line should be erased if not required.				
750,000. W 2185—M500. H. W. & V., Ltd. 6/16.				

DIVISIONAL SIGNAL SCHOOLS.

I think the only practical way to run a Divisional Signal School is to do so as a branch of the Division School. This is now done normally by the 2nd Australian Division, but the school, as at present constituted does not give much value.

If a Signal School is only open while the Division is out of the line, the time available is too short for any systematic instruction to be carried out.

To establish a permanent school a permanent Staff of instructors is required, and as the benefit which can be derived from the former can be so great, it is worth getting the best men for this purpose that can be obtained. To do this I suggest that in each Division one officer from the Divisional Signal Company, preferably from a Brigade section be appointed to take charge of the school, and that he have as Assistant Instructors two N.C.O's drawn from the Divisional Company or from amongst Battalion or Artillery Signalling N.C.O's; these to remain permanently at the School. The place of the Officer in the Divisional Signal Company should be filled by temporarily attaching one of the Battalion Signal Officers to the Company, and the same could be done as regards N.C.O's drawn from the Divisional Signal Company. This procedure also provides for the training of Officer replacements for the Divisional Company, and should give some encouragement to Battalion Signal Officers and N.C.O's.

Each course should last at least a month, and 40 candidates could be taken, 20 from Infantry and 20 from Divisional Artillery.

The instruction given by the permanent Staff could be supplemented by lectures given, when possible, by other officers of the Divisional Company - especially by the officer i/c Divisional Artillery Signals.

Suitable accommodation must be provided for the Signal Class at the Division School, and a class room or hut provided which the signallers can have the sole use for lectures or buzzer practice etc. in bad weather.

A proper syllabus of instruction should be drawn up providing for night work as well as day, which can be adapted to weather conditions. It should also embrace simple tactical schemes.

Visual equipment will have to be drawn from Division establishments, but I would try and obtain the necessary telegraph, telephone and line stores, as instruction in the latter branches is essential.

The standard of training of the whole of each class on joining the school should be uniform as possible. I think it better that the elementary instruction of beginners should be carried out in units, and that men should be able to read and send at least 4 words a minute on small flag and buzzer before joining the class.

R. L. Bell
R.A.
A. D. SIGNALS,
1 ANZAC CORPS.

10/12/16.

25

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Appendix No. 5.

A.D. SIGNALS,	
Anzac CORPS.	
No.	T. 485
Dts.	10-12/10

O.C. 1st Australian Divisional Signal Company.
 O.C. 2nd Australian Divisional Signal Company.
 O.C. 4th Australian Divisional Signal Company.
 O.C. 5th Australian Divisional Signal Company.
 O. i/c Signals Corps Heavy Artillery.

I propose to adopt the following scheme of labelling lines in the main cable trenches in this area.

Denote each junction point by a letter, and give a series of numbers to the pairs in each section between junction points with the letters of the latter preceeding the numbers. Thus in the section between "A" and "B" junction points the pairs would be labelled "A-B.1", "A-B.2" etc., and between "B" and "C" points "B-C.1", "B - C.2" etc.

If it is found necessary to split a pair within a section the numbers would become "A-B.1 forward", "A-B.1 back" etc.

I think this will be the simplest system, and more adaptable than giving a pair one number throughout its run through several sections.

Do you agree or have you any suggestions please ?

Lieut. Col. R.A.,

A.D. Signals I Anzac Corps.

10th December,
 1916.

Appendix No. 6.

The following is a brief summary of the work carried out by Corps Signals during the period 9th November to 8th December.

The system of communications we found on taking over this area was roughly as follows:-

The main route ran from Heilly to the railway level crossing, thence on the French permanent wires along the railway till ~~where~~ branched off from a point E. of Dernancourt to Vivier Mill, where all lines were led in for test.

The principal routes forward from Vivier Mill were as follows:-

- (a) 24 line permanent route, now called "Green route", running round N. of Meaulte, and S. of Becordel, thence into Fricourt (led into dug-out there for test) out via Rose Cottage and Mametz to Pommiers, N. of Road between latter places. This route had just been completed to Montauban but was not in use beyond Pommiers.
- (b) 32 line permanent route, now called "Blue route" starting from E.17 d 4.8, running over King George's Hill skirting Mametz to Montauban keeping S. of main road all the way. Connection from Vivier Mill to this route by multi lead cable, suspended for some way on the Green Route, then slung across Meaulte. Mainly used for Heavy Artillery Lines.
- (c) 16 way iron pole permanent route, now known as "Red Route", starting from Bellevue Farm, running along road to F.8 c 5.9, thence along S. of main road through Mametz to Montauban. This route was reached from Vivier Mill by a spur route to Bellevue Farm, built when move of Corps to latter place was in contemplation.
- (d) A poled cable route of 18 pairs of D.5 cable from King George's Hill to Montauban via Mametz and South of Main Road Mametz - Montauban. The circuits on this route were in process of being changed on to the Green Route.
- (e) A buried route from Pommiers to Montauban consisting of a 19 pair cable and some oddments.
- (f) A 6 ft. trench from Montauban to York trench containing 44 pairs cables of various kinds. This trench carried forward lines of both Divisions, Artillery, and sundry Corps Lines.

The system of Telephone communications was almost entirely through a series of Exchanges which were situated at Vivier Mill, Fricourt and Pommiers. There was practically no distinction between tactical and administrative lines. In fact the telephone system might be described as a large municipal one designed almost on "peace" conditions requiring an expert operating and maintenance Staff to keep it going.

Again it appeared to me that All the Eggs were, more or less, in one basket, especially as regards the Railway route. The permanent routes forward of Vivier

2.

Vivier Mill were very good ones, but having been erected very hurriedly were beginning to tumble over with the bad weather, and in urgent need of strengthening.

The lines in the Montauban - York Trench route were in an unsatisfactory state, inferior cable having had (ed to be laid in some cases. Several Test Boxes had been destroyed making localization of faults practically impossible. Complaints from both Divisions who were working forward on this route and from Artillery came in quickly.

We were really in the position of having to take over a big system of communications laid out for and during active operations under very difficult conditions, and which was beginning to break down with the bad weather coming on.

The following work was therefore put in hand:-

1. Improving route from Heilly to the Railway, replacing various types of light construction with proper permanent lines - not yet completed.
2. Running an alternate route clear of Railway and Vivier Mill. 4 way hop-pole route constructed via Ribemont round N. of Bulre, E.14 to E.11 Central, thence connected to forward system - Complete.
3. Diverting the Green Route clear of Fricourt, where it had been frequently broken by shell fire, by building a new route from Becordel to near Mametz over(****) King George's Hill joining through, and leaving a spur only into Fricourt; carried out by 4 T.C.P. from Fourth Army. The old route from Fricourt to be dismantled.
4. Conversion of Green Route from 24 to 32 lines throughout its route; carried out by 4 T.C.P..
5. Staying and strengthening of the Red, Green and Blue Routes throughout their run, and fitting proper test boxes on the poles at suitable intervals - still proceeding.
6. Dismantling the heavy poled-cable route, and recovering stores for future use. Completed.
7. Changing circuits from buried route Pommiers to Montauban on to open route, so that buried route can be overhauled and ~~renewed~~ reserved for emergency. Completed.
8. Construction of 4 way hop-pole route Montauban to new Right Division Headquarters, and a poled-cable route taking different directions. Completed.
9. Closing Corps Exchange at Pommiers, and opening a new forward exchange at Montauban. This also serves as a central test point where all lines are led in for test. Completed. An excellent dug-out was constructed by 178 Tunnelling Company R.E.
10. Provision of additional circuits on the above routes, so as to provide direct line where required for tactical purposes. e.g. Corps to Divisions and G.S. of Divisions; G.O.C.R.A. to Divisional Artillery Groups; Flying Corps Wireless station to Heavy Artillery Groups etc.
The intention being to use the advanced exchanges as local exchanges only for units in their vicinity, and not as junctions on the main system. Completed.
11. Construction of a 24 way permanent route Montauban to Bazentin to serve Left Division Headquarters,

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3.~~ON XIPHOEDY~~

11 (contd:) 3rd H.A.G., units at Quarry etc. Not yet completed.

12. Rebuilding Test-boxes on Montauban - York Trench buried route testing out all lines at all boxes, labelling out, rejointing, etc. Completed; but a new section to be laid to replace one localized as faulty.
13. Construction of various local connections to different exchanges.
14. Construction of communications for Anti-Aircraft Scheme in defended area - (separate report) - Completed.
15. Reconstruction and clearing up routes about Bellevue Farm, and bringing all on to board at latter for test. Completed.
16. Clearing up lines about E.11 Central, some reconstruction and fitting test box. Completed.
17. Reconstruction of interior of Corps Signal Office, with various alterations and improvements - Completed.
18. Refitting interior of Heavy Artillery Office at Vivier Mill. Thorough overhaul of switchboard there. Completed, but new test panels still to be fitted.
19. Picking up dead cable about Ricourt and Mametz.

On night November 14th -15th bombs were dropped on the railway between Buire and Dernancourt, and our main route brought down more or less completely for 20 days. Breakdown gangs were out by 3.30 am. and all lines were mended by 11 am., Fourth Army sending assistance in the morning to make the temporary repairs permanent: one circuit running a roundabout way via Treux to Vivier Mill remained good. A Signal Office Staff was sent out as soon ~~as~~ as the breakdown occurred to Vivier Mill, and telegraph work transmitted from there.

This experience showed the danger of having only one main forward route.

We have been fortunate in getting the loan of part of 52 Airline Section from 1st Army, which is greatly assisting matters. Also we have recently taken over from the French two good routes (one permanent and one trestle) from Meaulte to Montauban so that we are well off for lines between these points.

I am anxious to get all lines from Heilly to the end of the Corps maintenance into a thoroughly safe and strong state as soon as possible, but there is still a great deal of work to be done to accomplish this.

The work done during the past month on Heavy Artillery Lines is not included here. No work of particular interest has been done by wireless or pigeons.

The average daily traffic passing through the Signal Office has been...

Telegrams ... ¹⁸⁴² ...
(counting transmitted messages as 2).

D.R. packets. ¹⁰⁵⁵ ...

Appendix No. 6.

25

It has been necessary to continue running a sub Telegraph office at Fricourt to serve units in that vicinity, and Corps is also running a sub office at Vivier Mill in conjunction with the Corps Heavy Artillery Office there for a like purpose.

The delivery of telegrams and D.R. packets to the many scattered units of Corps Troops in this area constitutes a considerable strain on the Corps Signals personnel.

The new distribution of Corps Construction Sections, recently laid down, is being brought into force now and I hope this will make an improvement generally, and give material assistance to Divisions.

14/12/16

R. H. Bell
R.A.
A. D. SIGNALS,
1 ANZAC CORPS.

A. D. SIGNALS,	
Anzac CORPS.	
No.	T. 501
Date	14/12/16.

Anzac Corps,

"G"

In accordance with your directions, sites for Trench wireless sets have been reconnoitred near present location of certain Battalion Headquarters.

Suitable spots have been chosen at N.31 b 3.1 and N.33 C 8.2.

If you approve these, could instructions be given for the provision of a suitable dug-out at each place for the accomodation of the wireless station only ?

Each dug-out should be at least 6' x 9' by 6'6" high with at least 12 ft. head cover, and two entrances.

The Corps wireless Officer can attend at any time appointed to point out exact requirements. The work should be put in hand as soon as possible.

14th December,
1916.

John Robert
Lieut. Col. R.A.,
A.D.Signals I Anzac Corps.

by

A.D. SIGNALS I ANZAC CORPS

1. The general system of dealing with faults on lines requires attention and speeding up. Conditions at present existing are apt to convey the impression that faults can be repaired at leisure, or when circumstances are favourable for the purpose. This impression is erroneous and leads to faulty training. It must be understood that conditions may arise at any minute which render it imperative that every circuit should be in working order. To provide for this it is necessary that every fault must be repaired with the least possible delay.

2. Loss of time at present occurs -
- (i) In making tests.
 - (ii) In issuing instructions regarding the result of test, and the action to be taken.
 - (iii) Sending out linemen.
 - (iv) Procedure of linemen.

As regards (i) Dealing with faults must take preference of other work. Superintendents must be instructed to give immediate attention to requests for tests, and directed to pay personal attention to faults until the same are cleared.

As regards (ii) A schedule is being issued showing the places on various routes which are chief test points, and to which linemen are to be sent. Instructions to sub-offices as to the fault, and where linemen are to be sent should be immediate, brief and definite, and sent by telegram where possible.

As regards (iii) Linemen must be sent out from either end directly a fault is localized in a section. Directly a fault occurs linemen should be sent for and held ready to go out immediately, should the fault be localized in their section.

If necessary, every lineman must be sent out regardless of the fact that they may have just returned from work.

When a lineman is sent for he should report ready to go out immediately with all necessary kit.

As regards (iv) Some confusion appears to exist as regards "Maintenance". Maintenance areas have been laid down for defining the responsibility for the general care and upkeep of routes in those areas. When a lineman goes out on a fault from an office or from a test point to which he has been sent to localize the fault, it is to be distinctly understood that he proceeds along the line towards the fault, tapping in at intermediate test points, until he meets the lineman coming from the other end, or until he receives instructions at an intermediate test-point from his base office to return.

Maintenance areas have no significance where faults are concerned.

3 To Summarize :-

When faults occur it is the duty of everyone concerned to get the same rectified as soon as possible by every means in his power. Assistance should be asked for if required, and no one should be allowed to rest till the fault is cleared.

16th December,
1916.

Lieut. Col. R.A.,

A.D. SIGNALS I ANZAC CORPS.

Appendix No. 9

25

"A" Form.
MESSAGES AND SIGNALS.

Arm.
(in pads)
No. of Message

Prefix	Code	m.	Words	Charge	This message is on a/c of: <i>Appendix 9</i>	Recd. at	m.
Office of Origin and Service Instructions.			Sent			Service.	Date
			At			From	
			To			By	
			By		(Signature of "Franking Officer.")		

TO

Sender's Number.	Day of Month.	In reply to Number.	AAA
* RP 187	18	ES 126	

About 720 miles per
 mile for main trench
 Scheme as per diagram
 AAA This does not
 include leads into junction
 points from units AAA
 Steel Armoured Guard
 preferred where possible

From	A. D. Lyndall	
Place	Ayers	
Time		

The above may be forwarded as now corrected.

(Z)

Censor.

Signature of Addressor or person authorised to telegraph in his name.

750,000. W 2186-M509. H. W. & V., Ltd. 6/16.

* This line should be erased if not required.

S E C R E T.

59

A. D. SIGNALS.	
..... CORPS.	
No.	1554
Date

25
I Anzac Corps,
"G".

Appendix No. 9a.

Notified for your information that two Earth Induction Buzzers have been installed, as an experimental measure, on the Left Division Front at the following places :-

1. Goodwin's Post N.20.b.7.0
2. Fritz's Folly N.20.d.2.3

Number 1 is Headquarters Left Company Right Battalion, and No. 2 Headquarters Right Company Right Battalion.

Both these Buzzers work to an Amplifier installed in Cheese Road N.26.a.2.9, the Headquarters of the Left Company, Left Battalion.

(All above Right Brigade, Left Division).

The Left Battalion can maintain their line to their left Company where the Amplifier is installed, but the Buzzers work over ground where lines cannot be kept going.

The Buzzers are at present working very satisfactorily. The Amplifier can also work to a certain extent as a listening set, and daily reports of results will be sent you.

R. R. Robert

Lieut. Col. R.A.,
A.D. SIGNALS I ANZAC CORPS.

22nd December,
1916.

Handwritten Copy

G. 50/51

First ANZAC Corps.

GENERAL STAFF CIRCULAR No. 39

24.12.16

SUBJECT - D.R. LETTER SERVICE.

The following regulations regarding the D.R.L.S. are published for information and compliance.

1. Only such letters as are marked with a Red "R" on the envelope will be registered at Signal Offices. The "R" will be at least $\frac{3}{4}$ " in height.
2. The use of this marking will be reserved for important letters of which a record is necessary.
3. The number of letters to be registered will be kept as low as possible. Unregistered letters reach their destination as quickly as registered ones. All "Secret" or "Confidential" letters will be registered.
4. All letters for D.R.L.S., to be registered must also be marked "D.R.L.S." on the top-right-hand corner, signed by an officer and bear an identification number. They should, if possible, bear the office stamp of the originating office.
5. D.R.L.S. letters for units within the Fourth Army Area which do not require to be registered need not be signed by an officer, but will be marked "D.R.L.S." and bear the office stamp of the originating office.
6. All letters for units outside the Fourth Army Area will be registered, and comply with the instructions laid down in para 4.
7. Any letter which has been registered at the Signal Office of origin will be registered at every Signal Office through which it passes, and a receipt obtained for its delivery.
8. Unregistered letters sent by D.R.L.S. under para.5. will be entered on the docket carried by the D.R. as so many unregistered letters. A letter once started as unregistered will not be subsequently registered at any subsequent office through which it may be transmitted.
9. Letters to be sent out by special despatch rider will be marked "P.D.R." in red on the top-right-hand corner, and signed by an officer having authority to frank a "priority" message. Such letters will bear an identification number, and always be registered.
10. Letters marked "pressing" or "Urgent" will comply with the conditions laid down in para.4. They will be sent by normal despatch rider, but will be specially delivered from the Signal Office to which addressed.

only.

-2-

11. The D.R.L.S. will be used for official correspondence only. Only a limited number of letters can be carried by each D.R., and such letters will be in normal sized envelopes. Bulky packages and parcels will not be sent by D.P.L.S. In no circumstances will explosives be carried by D.R.

The D.R.L.S. will not be used for correspondence for which the Army Postal Service is sufficient. All communications of purely routine nature will normally be sent by post.

12. Letters which do not comply with the above instructions will be refused by Signal Offices.

Crull

for Brigadier-General
General Staff,
1st ANZAC Corps.

Appendix No. 11

25

"A" Form.
MESSAGES AND SIGNALS.

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

No. of Message.....

Prefix	Code	m.	Words	Charge	This message is on a/c of: <i>Appendix 11</i>	Recd. at.....m.
Office of Origin and Service Instructions.			Sent			Service.
			At.....m.			From.....
			To.....			By.....
			By.....		(Signature of "Franking Officer.")	

TO {

DD Slip 4 Army

Sender's Number.	Day of Month.	In reply to Number.	AAA
* <i>RP 213</i>	<i>22</i>		

Cable *D 3* and telephones
D 3 urgently required
 to bring units up to
 establishment *AAA 60*
 miles *D 3* and *42* telephones
 still due ^{to me} on demand *AAA*
 Steel Armour had also
 urgently required for buying from
 home line otherwise work

From <i>armor proceed</i>	
Place <i>AD Slip Amias</i>	
Time	
The above may be forwarded as now corrected.	
Censor.	(Z)
Signature of Addressor or person authorized to telegraph in his name.	

* This line should be erased if not required.

750,000. W 2186-M509. H. W. & V., Ltd. 6/16.

25

Copy War Diary

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Appendix No. 12.

Ref 1st Anzac

175/253

Adlyuab

Anzac Corps T 569
24/12/16

1st Australian Division.
2nd Australian Division.
4th Australian Division.
5th Australian Division.
Corps Heavy Artillery.

1. Reference I Anzac Corps Letter 175/230 of the 8th inst., the following will be the instructions therein referred to for labelling lines in the Main Cable Trenches
2. Each junction point will be denoted by a letter. A table showing these is attached.
3. The pairs in each section between junction boxes numbered from 1 to 32 preceded by the letters of the junction boxes at either end. Thus the lines in the section between junction boxes RA and RB will be numbered "RA-RB.1", "RA-RB.2" etc. up to "RA-RB.32", each number denoting a pair of cables. If it is necessary to distinguish single lines, the wires of a pair will be called "a" and "b", e.g. "RA-RB.1.(a)" denotes the "a" leg of "RA-RB.1" pair.
4. Should it be necessary to lead off a connection at an intermediate test-box, the portions of the circuit that has been split will be known as "forward" and "back". For this purpose junction-boxes lettered "R" will be back to those lettered "L".
Thus if the pair "RA-RB.1" is led off at an intermediate box between RA and RB, the portion of the circuit between RA and the intermediate box will be known as "RA-RB.1.(back)", and the other portion as "RA-RB.1 (forward)".
5. Each pair will be labelled in every junction box at either side of junction, and every cable will be labelled in every intermediate test box. In the case of a multi cable the label will shew the numbers of the pairs the Cable contains.
6. The lineman responsible for the maintenance of a Trench section will keep a record enabling him to identify the pairs in any particular multi cable by the colours or number of ribs on the wires.
7. As far as possible each circuit should be the same number throughout its run. Thus "RA-RB.1" should be joined to "RB-RC.1" etc.
8. Records must be kept by the O.C. Divisional Company of the allotment of the circuits in every trench section within his maintenance, and linemen stationed at the junction points must have records of the allotment of all circuits in the sections for which they are responsible.
It is essential that these records be kept up to date and checked frequently to ensure that they agree, and that any changes or "cross overs" have been correctly entered.
Linemen should be provided with a book for this purpose.
9. Particular attention is directed to the instructions contained in paras. 7 and 11 G.S. Circular No. 34 of 29/11/16.

Sd. R.M. POWELL, Lieut. Col. R.A.,

23/12/16.

for Brig. Gen. G.S. I Anzac Corps

BURIED CABLE SCHEME.

Table shewing allotment of Identification Letters
to junction boxes.

Reference ¹10,000 tracing issued with scheme.

Position of Junction Box.	Letter allotted.
---------------------------	------------------

<u>HQ Right Division.</u>	RA
Intersection 1, 2 and 22 trenches ...	RB
- do. - 2. 18 and 3 " ...	RC
- do. - 3. 19, 4, 23 " ...	RD
- do. - 4, 20, 5, 24 " ...	RE
- do. - 5, 21, 6, 25 " ...	RF
Guillemont Station	GM

<u>HQ Left Division.</u>	LA
York Trench (intersection 7, 22, 8) ...	YT
- do. - Intersection 8, 9, 26 trenches	LB
- do. - " 9, 23, 11, 14, 27 "	LC
- do. - " 11, 24, 12, 28 "	LD
- do. - " 12, 25, 13, 29 "	LE
- do. - " 14, 28, 15 "	LF
- do. - " 15, 16, 30 "	LG
- do. - " 16, 29, 17, 31 "	LH

Appendix No. 13.

SECRET.

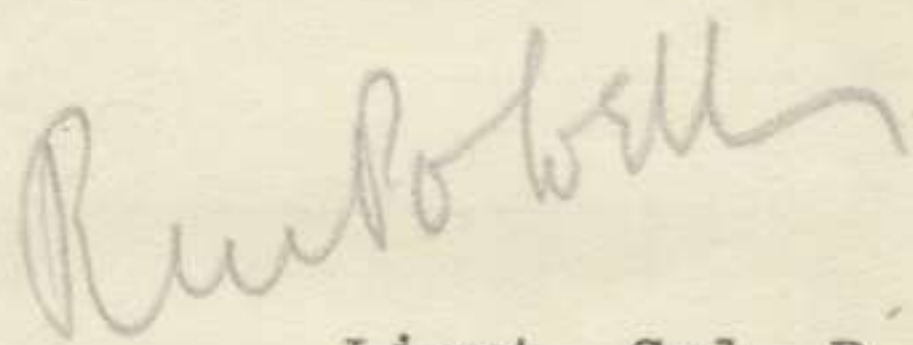
I Anzac Corps,

"G".

A. D. SIGNALS,	
<i>Anzac</i> CORPS.	
No.	<i>6572</i>
Date	<i>24/12/16</i>

Weekly progress Report on Buried Cable Scheme
for week ending 23rd December, 1916.

1. Progress made by Left Division has been slow, owing to shortage of labour.
 Section 7 has been carried from S.15.B.51 to S.16.D.2.3. wired, and filled in.
 Section 9 has been carried on to S.12.a.8.8. wired, and filled in, but there is still a short gap in S.11.b. where the ground is very wet, and practically impossible to bring Cables in till we get a few days dry weather.
 The digging party working for 1st Division is now only about 140 strong, and with this number of men work can only be expected to progress slowly.
 On the Right Division sector no Cable at all has been buried during the tour of the 5th Australian Division in the line.



Lieut. Col. R.A.,

A.D. SIGNALS I ANZAC CORPS.

24th December,
1916.

25

66

Appendix No. 14

"A" Form				Army Form C. 2121	
MESSAGES AND SIGNALS.				No. of Message	
Prefix	Code	m.	Words	Charge	This message is on a/c of: Service.
Office of Origin and Service Instructions.			Sent		
			At	m.	Recd. at
			To		Date
			By	(Signature of "Franking Officer.")	From
					By
TO		1st Anzac Corps G			
Sender's Number.		Day of Month		In reply to Number	
* RP 234		24		A A A	
A railway accident which has just occurred at Demancourt junction has broken our main route along the railway and there is likely to be considerable delay in telephonic and telegraphic communication till daylight					
From		A D Signals 7.30 pm			
Place					
Time					
The above may be forwarded as now corrected.				(Z)	
Censor.				Signature of Addressor or person authorised to telegraph in his name.	
* This line should be erased if not required.				A.D. SIGNALS, 1 ANZAC CORPS,	
(4198) Wt. W14242-M44. 30000.0 Pads. 12/15. S r J. C. & S.					

25

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Appendix No. 14

"A" Form
MESSAGES AND SIGNALS.

Army Form C. 2121

No. of Message _____

Prefix _____	Code _____	m. _____	Words _____	Charge _____	This message is on a/c of: _____	Reed. at _____ m.
Office of Origin and Service Instructions. _____ _____ _____			Sent _____		Service. _____	Date _____
						At _____ m.
			To _____	(Signature of "Franking Officer.") _____	By _____	
			By _____			

TO { SIGS AYA SIGS AYB
SIGS ALHA SIGS AYE

Sender's Number. Day of Month In reply to Number

* 235 24 AAA

Owing to breakdown on
main railway route
between Corps HQ and
~~the railway station~~
Viceroy, please arrange
to reduce telegraph and
telephone traffic as much
as possible tonight AAA
Ask your Staff to assist

From A D Signato Anyass
Place
Time

The above may be forwarded as now corrected.

(Z)

Censor.

Signature of Addressor or person authorised to telegraph in his name.

* This line should be erased if not required.

(4198) Wt. W14-42-M44. 300000 Pads. 12/15. S. & S.

1 ANZAO CORPS.

Appendix No. 15

"A" Form.
MESSAGES AND SIGNALS.

Army Form C.2121
(in pads of 100).
No. of Message.....

Prefix.....	Code.....	m.	Words	Charge	This message is on a/c of: <i>Appendix 15</i>	Recd. at.....	m.
Office of Origin and Service Instructions.			Sent			Service.	Date.....
			At.....			From.....	
			To.....			By.....	
			By.....		(Signature of "Franking Officer.")		

TO

Sender's Number.

Day of Month.

In reply to Number.

A A A

* RP 231

24

Please forward route
diagram showing all circuits
of your division including
both Divisional Artillery ^{Left} posts
and another showing how
circuits will run when wired
system is complete A A A
Required for information G S

From

Place

Time

The above may be forwarded as now corrected.

(Z)

Censor.

Signature of Addressor or person authorised to telegraph in his name.

* This line should be erased if not required.

750,000. W 2186-M509. H. W. & V., Ltd. 6/16.

Appendix No. 15

"A" Form
MESSAGES AND SIGNALS.

Army Form C. 2121.

No. of Message _____

Prefix _____	Code _____ m.	Words _____	Charge _____	This message is on a/c of: _____	Recd. at _____ m.
Office of Origin and Service Instructions. _____ _____ _____		Sent At _____ m. To _____ By _____		Service. _____ _____ (Signature of "Franking Officer.") _____	Date _____
					From _____
					By _____

TO { LRS AYB

* Sender's Number R 237	Day of Month 24	In reply to Number _____	A A A
--	--	--------------------------	-------

Please forward route diagram showing all Circuits of your Division also those of both Divisional Artilleries Right front and another showing how all these Circuits will run when buried Scheme is complete

AAA Lys AYE may be able to assist you for information of GS

A to Lys also

R. H. Powell

From _____

Place _____

Time _____

The above may be forwarded as now corrected.

Censor. _____

Signature of Addressor or person authorised to telegraph in his name. _____

* This line should be erased if not required.

(4198) Wt. W14242-M44. 3000.0 Pads. 12/15. S. r. J. C. & S.

Appendix No. 15

"A" Form.
MESSAGES AND SIGNALS.

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

No. of Message.....

Prefix.....Code.....m.	Words	Charge	This message is on a/c of: Service.	Recd. at.....m.
Office of Origin and Service Instructions.	Sent			Date.....
	At.....m.			From.....
	To.....		(Signature of "Franking Officer.")	By.....
	By.....			

TO

Sigs AUSA

Sender's Number. * RP233	Day of Month. 24	In reply to Number.	AAA
-----------------------------	---------------------	---------------------	-----

Please forward early for
information of GS route diagram
showing all HA lines
including OPs and
another showing how all
circuits will run when
bured Scheme is complete

From	AD Sigs	Also
Place		
Time		

The above may be forwarded as now corrected.

(Z)

Censor.

Signature of Addressor or person authorised to telegraph in his name.

* This line should be erased if not required.

750,000. W 2186-M509. H. W. & V., Ltd. 6/16.

Appendix No. 16.

25

"A" Form
MESSAGES AND SIGNALS.

Army Form C. 2121.

No. of Message

Prefix	Code	m.	Words	Charge	This message is on a/c of: Appendix 16 Service.	Reed. at	m.
Office of Origin and Service Instructions.			Sent			Date	
			At			From	
			To			By	
			By		(Signature of "Franking Officer.")		

TO { 1. Anzac Corps G SIGS AYA
SIGS AYB SIGS AYE
SIGS AUH B

* Sender's Number. RP 241 Day of Month 25th In reply to Number AAA

temporary repairs to railway
route complete AAA
normal traffic can now
be resumed

From A D Signals
Place 12th Anzac
Time

The above may be forwarded as now corrected.

(Z)

Censor.

Signature of Addressor or person authorised to telegraph in his name.

* This line should be erased if not required.

(4198) Wt. W1442-M44. 300000 Pads. 12/15. S. J. C. & S.

A.D. SIGNALS,
LANZAO CORPS

72

A. D. SIGNALS,	
Anzac CORPS.	
No.	T. 5901
Date	28/12/16

25

O.C. 1st Australian Divisional Signal Company.
 O.C. 2nd Australian Divisional Signal Company.
 O.C. 4th Australian Divisional Signal Company.
 O.C. 5th Australian Divisional Signal Company.

Under instructions received from General Staff,
 I Anzac Corps, Pigeons will not be supplied to Brigades
 in line till further notice, owing to the prevalent bad
 weather.

R. A. Roberts

28th December,
 1916.

Lieut. Col. R.A.,
 A.D. Signals I Anzac Corps.

Copy 25

SECRET.

Appendix No. 18.

A. D. SIGNALS.	
CORPS.	
No.	T. 594
Date	29-12-16

I Anzac Corps,

"G".

With reference to the Amplifier Set which has been installed in Cheese Road N.26.a.2.9 (Headquarters Left Coy.) in connection with the Earth Induction Buzzers on Left Division Front:-

The results obtained up to date justify the Set being kept there permanently, but the present accomodation is not suitable for this, and prevents the best results being obtained. A proper dug-out for the exclusive use of the Amplifier is required. Further, a certain amount of interception of German is being obtained, and if this continues it will be desirable to instal the large Listening Set at this place. The dug-out should therefore be large enough for this purpose, and must be deep to provide protection for the instrument which is very valuable.

If Left Division can be asked to carry out the construction of the dug-out, the Corps Wireless Officer will point out exactly what is required.

Am. Bell

Lieut. Col. R.A.,

A.D. SIGNALS I ANZAC CORPS.

29th December,
1916.

S-E C R E T.

A. D. SIGNALS,	
Anzac CORPS.	
No.	596.
Date	29-12-16.

I Anzac Corps,
"G".

I think it essential that instructions should be issued to all concerned to prevent the fact that an Amplifier Set is installed on this Corps Front becoming known to the enemy.

If the enemy get to know that we have any form of listening Set installed, we shall pick up no German whatever.

The presence of the Set should never be discussed verbally, and on no account must any message be sent by Earth Induction Buzzer or by Telephone which could give the slightest indication of the existence of the Amplifier.

It should be made clear that any infringement of these instructions will be treated with severe disciplinary action.

29th December,
1916.

Robertson
Lieut. Col. R.A.,
A.D. SIGNALS I ANZAC CORPS.

SECRET

A. D. SIGNALS.	
CORPS.	
No.	1.600
Date	30-12-16.

25
copy
I Anzac Corps "G".

&

D.D. Signals,

Fourth Army.

Notified for your information that the Trench Wireless Sets on both Right and Left Division Fronts have had to be withdrawn owing to the dug-outs in which they were working becoming flooded out.

During the present wet weather it will be impossible to re-instal these sets till the Wireless Dug-outs already asked for are completed.

R. H. Owen

Lieut. Col: R.A.,

A.D. SIGNALS I ANZAC CORPS.

30th December,
1916.

SECRET

I Anzac Corps,

"G".
-----WEEKLY PROGRESS REPORT ON BURIED CABLE SCHEMEfor week ending 30th December, 1916.

RIGHT DIVISION. Section 18 has been completed, and Section 3 has been carried as far forward as T.13.a.7.2.

The actual route of Section 3 has had to be diverted rather to the South of the line shewn on the original plan.

The digging party on this Section evidently came under hostile observation when on the ridge N.W. of Ginchy yesterday morning, and was shelled out, but the work was carried on last night. It will probably be necessary to carry on work on this section by night for two or three nights if the weather remains clear.

A start has also been made with section 5 from rear to front, and about 140 yards completed. This is night work. Now that a good start has been made with the burying on the Right Division Front, I hope that progress will continue if the present strength of labour parties can be kept up.

There has been a lot of delay getting Cable up by Decauville, which has kept the loading and carrying parties hanging about. I have taken this up with "Q".

LEFT DIVISION. Section 7 has been completed.

Unfortunately York Trench Dug-out ~~is~~ is not yet finished so it has been impossible to lead the ends of the cables in and get them connected up.

Section 9 has been carried as far forward as S.12.b.0.7. The gap over the wet ground in S.11.b has been completed.

Progress made on this Division Front appears small, but some very wet ground has had to be got through necessitating a lot of draining before any cable could be buried, and the labour available only amounts to about 150 men.

The supply of terminals for junction boxes is very slow, and likely to hang up putting through the wires as the sections are completed.

I have made urgent representations to D.D.Signals Fourth Army about this.

31/12/16.



Lieut. Col. R.A.,

A.D.SIGNALS I ANZAC CORPS.

A. D. SIGNALS,	
ANZAC CORPS.	
No.	T. 606.
Date	31-12-16.

O.C. 1st Australian Divisional Signal Company.
 O.C. 2nd Australian Divisional Signal Company.
 O.C. 4th Australian Divisional Signal Company.
 O.C. 5th Australian Divisional Signal Company.
 O. i/c Signals Corps Heavy Artillery.
 O.C. "K" Army Corps Signal Company.

 In future the following will be the procedure for dealing with telephone and telegraph instruments sent to the Corps Signal Work Shops for repairs.

Whenever instruments are sent to Vivier Mill for this purpose the Corps Storeman there will give a receipt for the same. A serial "repair number" will be allotted to each instrument and shewn on the receipt.

On the arrival of the instruments in Corps Signal Workshops, they will be classed as "Repairable" or "Unserviceable", and the unit sending them in will be advised accordingly by wire, the repair number of the instrument being quoted in each case.

In the case of D.3 telephones, an instrument will not be regarded as deficient until advice is received from Corps Signals that the instrument is "unserviceable", when a demand to replace should be put forward.

Whenever an instrument is sent in for repair it must be complete, with all its fittings, otherwise an explanation of the deficiency must accompany it.

R. A. Powell

Lieut. Col. R.A.,

A.D. SIGNALS I ANZAC CORPS.

31st December,
 1916.

War Diary

BURIED CABLE SCHEME:
1ST ANZAC CORPS AREA:
10-12-16:

