

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

Engineers

Item number: 14/1/2

Title: Chief Engineer, Australian and New
Zealand Army Corps

October 1915



AWM4-14/1/2

C.E. ANZAC.
WAR DIARY

INTELLIGENCE SUMMARY.

(Erase heading not required.)

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A. G. A. OFFICE AT CTM
Army Form 100
3rd. ECHELON, M. E. F.
12 NOV. 1915
CENTRAL REGISTRY.
M. F. C.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Anzac.	5-10-15		Major (Temporary Lt. Col.) W. D. Smith, R.E. A.D. & M.G. Anzac appointed Chief Engineer, Anzac, vice Colonel (Temporary Brig-Gen) G. Williams, and to retain the temporary rank of Lt. Colonel while so employed - dated 5-10-15 (M.E.F. General Routine Order No. 537, dated 6-10-15, and Appointments list No 35). Assumed duties of C.E. Anzac accordingly - and consulted Field Engineer as to works in progress.	
	6-10-15		Visited works in progress Anzac Beach and North Beach. Received letter from Engr. in. Chief with the ruling that O/C R.E. Stores will incur no financial responsibility as regards stores taken over from Ordnance, Anzac, but he must keep registers of receipts and issues - issued instructions to the officers accordingly. N.Z.A. Det. put forward proposals re. water supply to Apra and Rhododendron Spur. These are receiving consideration.	Mb
	7-10-15		Visited works in progress Anzac Beach and North Beach. and issued instructions to 2d. Engr. re. back walls of Auto Corps Hqrs. Lt. Cunningham, Geologist, left for Mudros. Received from Engr. in. Chief drawings of Distilling Plant leaving England about 25-9-15.	Mb
	8-10-15		Major (Temporary Lt. Col.) W. D. Smith, R.E., Chief Engineer, Anzac, granted the temporary rank of Brig-Gen while so employed. dated 5-10-15. (M.E.F. General Routine Order No 543, dated 8-10-15, and Appointments list No 36). - Has diary for Sept. despatched to 3rd Echelon. Wired Engr. in. Chief for 235 pieces 9"x3" lengths 15' to 20' for piers.	Mb

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Anzac.	9.10.15		Heavy squall last night from SW. - a loaded lighter tied up to S side of No. 2 Pier broke adrift and in going ashore tore away 30' of pier at shore end. Similarly an empty horse boat on S side of Watson's Pier went adrift, charged the shore end of the pier and eventually passed through it carrying away 40' of trestle work and with it the two main 3" suction pipes leading from steam pumps to pier head. thus cutting off entirely our water supply from ships. At the same time the Greek water boat "ADELAIDE" and an empty wooden water lighter, tied up at the N. side of Watson's Pier broke adrift and went ashore - Two other temporary piers were also rendered useless. Orders were issued from Hdqrs. at 0600 that all troops on pipe lines were to be placed on a $\frac{1}{2}$ gallon ration and that water in Reservoir was to be gravitated to S. only - Orders were issued by C.E. at same time to Engineers, 1st and 2nd Aust Divs that they were to take immediate action to develop the wells in their Divisional Areas. At noon the water storage was: <table><tr><td>In Reservoir</td><td>Gallons</td></tr><tr><td></td><td>38,000</td></tr><tr><td>In Tanks on Pipe line</td><td></td></tr><tr><td> 1st Aust Div S.</td><td>6,800</td></tr><tr><td> Anzac Base S.</td><td>2,000</td></tr><tr><td></td><td> 46,800</td></tr></table> Little or no damage was done to piers at North Beach although lighters were tied up to them. Ship "OMONIA" went to pieces but most of her cargo of timber drifted, very conveniently, to beach near No. 2 Post where it was collected, guarded and issued to the Divisions on the left bank. Throughout the day trestles for temporary repairs to Watson's Pier made up but could not be placed because of rough water. Works at North Beach progressed as usual - Nothing to report from Divisions - Engineer-in-Chief visited Anzac, and while here wired G.H.Q. re. necessity for replacing water lighter and having a second one at Anzac - both iron. wired also Comm. to hasten repairs to iron lighter sent to Mudros on 6th.	In Reservoir	Gallons		38,000	In Tanks on Pipe line		1st Aust Div S.	6,800	Anzac Base S.	2,000		46,800	
In Reservoir	Gallons															
	38,000															
In Tanks on Pipe line																
1st Aust Div S.	6,800															
Anzac Base S.	2,000															
	46,800															

1577 Wt.W10791/1773 500,000 1/15 D. D. & L. A.D.S.S./Forms/C. 2118.

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C. E. ANZAC.

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Anzac	10-10-15	-	after clearing up debris at foot of Watson's Pier the launching of temporary trestles was taken in hand and by 2100 communication with the standing part of the pier was established and permitted of one running out a 3" suction to wood water lighter. Pumped 10,000 gals. to Reservoir - Groups on pipe line still on 1/2 gal. ration - Attempts to refloat Greek water boat "ADELAIDE" unsuccessful.	
	11-10-15		Work at L on Watson's Pier continued and temporary decking improved. At noon the water storage was.. In Reservoir In Tanks on Pipe line Dist. Areas S. Anzac Base S. Gallons 15700 6,100 2,500 24,300	Storage at noon 9-10-15 46,800. Added on 10-10-15 10,000 Storage at noon 11-10-15 56,800. Consumption in 48 hrs by troops on Pipe line, S. 24,300. Advs. improved with reference to orders issued on 9th for 1/2 gallon ration..
			In afternoon large iron water lighter was brought in and 15,000 gals. pumped to Reservoir. at 2340 motor water lighter at moorings about 200' from beach delivered water to tanks placed on beach at Watson's Pier. The ordinary canvas fire hose used by Navy was weak and burst. causing some delay. after repairs tanks were filled and fed over 3" suction and water was raised to Reservoir. 9000 gals. added to storage. This is first time at Anzac that water has been delivered ashore direct from lighter at moorings. and no doubt that with a little care this supply can be continued in fairly rough weather. Further attempts to float the "ADELAIDE" failed as lightered her as far as possible. Sent to Engs. in Chief. Progress Report with ending 9-10-15. Asked for 360' 3" piping & pipe fittings for shore and of delivering from motor lighter. Used Quetta & Works for tramway material too late to get plants. also 8th Corps for pipes.	appe. 1.

1577 Wt. W10791/1773 500,000 1/15 D. D. & L. A.D.S.S./Form 2. 2/18

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CE. ANZAC.

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Anzac	12-10-15	-	Water in Reservoir at 0900, 30750 gals - Orders issued by Hdqrs. at 0815 troops on Pipe line to receive full water ration of 1 gallon - this in view of favourable prospects of obtaining further supply from Navy on evening. Repeated last night's experiment with motor lighter, replacing canvas hose at shore end by 3" iron piping - and thereby saving much leakage - Great water boat "ADELAIDE" floated at 1810 - Asked Engr. in-Chief for further 3" piping for use from shore to mooring of motor lighter.	
	13-10-15		Water in Reservoir at 0900, 36,000 gals - Emptied large iron water lighter by day and worked motor lighter supply by night. N.T.O. suggested beaching iron lighter for use as storage tank ashore - informed him I was against this, and would even prefer to have her kept at Dumbos as a reserve if he considered it unsafe to keep her here. Asked Engr. in-Chief for lighter broken metal from Dumbos for concrete work - wired 8th Corps for trussed beams.	Mb
	14-10-15		Water in Reservoir at 0900, 36,000 - Motor lighter came to moorings late in afternoon and delivered to shore tanks - later made a second trip & delivered fast load to iron lighter - Visited North Beach with Sir Victor Horsley and Col Howard, D.D.M.S. regarding proposal of latter to allow more than 8 men to hut - said there was no medical objection to placing 15 men in type of hut examined - inspected also possible site for 400 additional medical cases.	Mb

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Anzac.	15-10-15		Water in Reservoir at 0900. 46,000 gals. - Emptying now lighter at 1200. there was no further delivery from the Navy through the day or night. - Completed piling of L on Watson's Pier. moved driver ashore to continue piling which is to replace temporary trestles. - Completed main piling No. 7 Pier. Ceased work on huts, North Beach, pending decision as to number of men to be accommodated in each. - Visited Brighton Pier with a view to dismantling. Much work to be done and as yet little labour with which to do it. - Conveyed to site 2" piping to replace 1" now in use between Victoria Gully and Clark's Gully.	
	16-10-15		Water in Reservoir at 0900. 30,000 gals. - Motor lighter moved and pumping started 0600. - at 1200 Reservoir (Capacity 49,000 gals. approx.) was nearly full. - Completed foundation condenser site. - also removal of tanks to new site in Victoria Gully. including connecting up with 2" main. - Smeaton Works tug "Hamburg" arrived from Melbourne 1530. - brought one 5 1/2" "Downside" Borer and four French Pumps. with first consignments. - Water lighter moved at 2130 and was emptied at 0130. - Instructions from Engr. in-Chief re marking of graves. - Received 13 files from C.E. 8th Corps.	No
	17-10-15		Water in Reservoir at 0900. 47,000 gals. - Pile driving Watson's Pier continued. - all other work suspended as Commandant Base unable to provide any labour. - addressed Divisions re demolition of wooden lighters ashore on Anzac Beach. - Water lighter moved at 1900 and cleared at 2300. - later brought a second load and discharged into iron lighter at Watson's Pier. - Engr. in-Chief reports Distilling Plant arrived at Ephraim. - Decision from General Hdqrs that neither Railway nor Motor Road from Anzac to Suria is to be constructed at present. - Anzac to be self supporting and communication by tramway to be developed. - North Beach pier will be protected by sunken iron ship and "cannon" for small craft provided.	No

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Anzac	18.10.15		Water in Reservoir at 0900 - 47,000 gals. - Through the day pumped from iron lighter. More labour being available works progressed as usual. Commenced temporary trestle work No. 2 Pier as repair to damage done by storm night 8th/9th. Divisions (1st Aust and N.Z. and A) sent working parties to demolish wooden lighters ashore on Anzac Beach. Preparing shooting for concreting Watsons Pier. Discussed with Engrs. 1st and 2nd Aust Divisions proposed water storage & distribution 15' x 15' sheets. Sent Engr. in Chief. Progress Report week ending 18.10.15. Asked Director Works for 50 trestles (cross tips) for use on tramway extension to left flank. Received from Engr. in Chief advice of despatch from England of Ropeways for Anzac. Drawings have been cabled for.	Appx 2
	19.10.15		Water in Reservoir at 0900 - 43,000 gals. - Pumped from iron lighter. motor lighter also delivered ashore. Fixed shooting one bay for concrete filling Watsons Pier. 1st, 2nd and N.Z. & A. Divisions sent parties to demolish lighters. 54th Division applied for & was allotted a lighter. Discussed with Capt. Ellerton R.N. of H.M.S. "CORNWALL" proposal to sink ships at North Beach to protect pier and the probability that in rough weather motor water lighter will have to move in lee of ships and deliver water at North Beach instead of at Anzac Cove. This will involve additional pumping arrangements on shore at North Beach. we can meet requirements. - Deputy Director Works reported Condensing Plant on board ship at Siphon. Received from Engr. in Chief drawings for Anzac Ropeways Russell's Top and Bridges' Road. - Visited works in progress North Beach. - Capt. Ellerton agrees inadvisable to beach large iron water lighter for use as tank ashore. - Attended meeting Instructions Board. Sent to 9th Corps three blue print drawings of Condensing Plant.	11

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Anzac	20-10-15		Water in Reservoir at 0900. 44,000 gals. - Visited N.Z.A. Division pumping station, road up Chilato Drss. running work at Aprs. fire trenches Rhododendron Ridge and Camels Hump - "Wheatberry" arrived and discharging - supply of timber and <u>corrugated iron</u> disappointing - brought Messrs. Allen and Carson, American Drillers, and two fitters, Maer and Barcliff. all of Mr. Beby Thompson's staff. also drilling rig (less tools expected daily) for deep well boring. - Lieut Finkhaldy and Naval Officer from Sirphalos arrived and consulted re. landing at Anzac of Condenser Plant. all satisfactory - Received from Engr. in Chief Specifications shipment Aerial Ropeways for Bridges Road and Russell's Gap.	
	21-10-15		Water in Reservoir at 0900. 47,000 gals. - American Driller (Mr Carson) slightly wounded by sharpshooter bullet while proceeding up Sharpshooter Valley to Boring Site. and evacuated. Engr in Chief and Director Works informed. Fitter Barcliff applied to return to duties. approved as his <u>wounds</u> were in such a state that no useful purpose served by retaining him. applied to Division for services of 3 men reported to be drilling experts - all divisions sent parties to demolish lighters allotted to them - Completed piling at Watson's Pier and moved down to No. 2 Pier to continue piling there. Collecting materials at site for converting Williams' Pier, North Beach. - In reply to his query informed Engr in Chief 1050 sheets corrugated iron received since 26th Sep. and further supply urgently required. asked Director Works for Post Pickets and Soutie Pickets. D.A.Q.M.G. decided 10,000 beds to be provided for. Standard hut to accommodate 14 men accepted by D.D.M.S and D.A.Q.M.G. "Wheatberry" cleared.	Wb
	22-10-15		Water in Reservoir at 0900. 46,000 gals. - American Driller (Mr Allen) and party employed unpacking & assembling Boring Plant. Visited 2nd Aust Div. to examine invention of Pte. Groves - a machine gun silencer. - Visited coast new Corps Hdqrs. progressing satisfactorily. - Replacing roadway Watson's Pier - pile driving No. 2 Pier. - concrete work Watson's Pier unsatisfactory, owing to rough water and difficulty of holding sheeting - decided to try concrete blocks. - Applied A.D.W. Sirphalos for underbodies Oceanville trucks. Collecting materials for converting Williams' Pier. - Putting North Beach progressing. - also demolition lighters Anzac Beach.	Wb

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Anzac	23.10.15		Water stored at 0600. In Reservoir 44,500. Tanks on Pipe line 31,000. In lighter 25,000. Total 100,500 gals. In morning visited R.R. Stores, North Beach and new Corps Hdqrs. In afternoon went along location new tramway to left flank. Nos. 7, 8, 9, 10 wells in route. Started concrete blocks for Watson's Pier. collecting materials for concreting Williams' Pier. examined No. 2 Pier. Issued orders re stepping in tanks at back of condenser site and re storage tanks on beach near pumps. Improved roadway Watson's Pier. Engr. in Chief reports D.D.S.T. cannot spare a Workshop Lorry.	
	24.10.15		Water stored at 0600. In Reservoir 43,000. Tanks on Pipe line 35,000. In lighter 25,000. Total 103,000 gals. Received 500 sheets corrugated iron re "Partridge". Erected 4 storage tanks, each 1000 gals. at pumping station. moving others to same site from North Beach. Concreting at Watson's Pier and jill diving at No. 2 Pier continued though weather unfavourable. Commenced stepping of tanks at back of Condenser site to prevent landslides. Visited works at new Corps Hdqrs. progressing satisfactorily. Visited 2nd Aust. Division mining works at Russell's Top and Quinn's Post. Issued instructions to business to draw from R.R. Stores, each 5 cylindrical tanks, 220 gals. for water storage. First day on new standard huts to accommodate 14 men. Capt Ellerton R.N. of H.M.S. "Cornwall" informed us he had received sunken hose for 3rd end of 4" pipe to be laid from shore to working buoy of motor lighter. and was making coupling for junction between hose and pipe. Two Engineer Clerks, Coyles, More and Holmes reported for duty.	No
	25.10.15		Water stored at 0600. In Reservoir 47,000. Tanks on Pipe line 34,000. In lighter 25,000. Total 106,000 gals. Received re "Elkshira" corrugated iron sheeting as follows: 129 sheets 5'4", 132 sheets 6'6", 135 sheets 8'0" - 496 sheets. Engr. in Chief visited Anzac. and inspected works Anzac Beach and North Beach. Tanks for storage near pumping station moved to site from North Beach. landed from motor lighter 4 boilers for Condensers. Informed 1st & 2nd Aust. A.S. & 54th Divns. postings & casualties Engineer personnel Signal units not required by Engr. in Chief but should be reported by units direct to Director of Signals, G.H.Q.	No

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Anzac	26-10-15		Water stored at 0600. In Reservoir 47,000, Tanks on Pipe line 33,000. In lighters 25,000. Total 105,000 gals. Mr. Bealey Thompson arrived on duty connected with Deep Well Boring Plant - accompanied him to pumping stations of H.2 and A and 54th Divisions and consulted re. engines, pumps and pipe lines necessary to deliver water up Chilok Shrub and Aghal Shrub. - he proposed for each one 7 H.P. Blackstone Oil Engines - pump due shortly at studios and 2' delivery main. - Navy beached steamer "Milo" at North Beach as protection to pier. Heavy swell from S.W. came up early in evening but motor lighter came to moorings and delivered water ashore. In afternoon large iron water lighter was towed to North Beach to shelter in lee of "Milo". - applied 9th Corps for Hospital Huts. Director Works reported impossible to adapt 2'6" gauge petrol loco. to tramway gauge. applied Director Works for tanned roofing material. - Moved Deep Well Boring Plant from Anzac Beach to foot of Monash Gully - Electric light plant for Corps Hdqrs arrived from Suva and landed at North Beach.	
	27-10-15		Water stored at 0600. In Reservoir 47,000, Tanks on Pipe line 34,000. Total 81,000 gals. - also 25,000 gals. in iron lighter in lee of Steamer "Milo". Unable to land water from motor lighter owing to heavy sea. - Informed D.A. & M.G. of storage with a view to placing troops on pipe line on 1/2 gallon ration should be considered it advisable. Peris work suspended - other works as usual. Erecting sandbag traverses Anzac Beach to protect tanks near Pump House. also Boilers of Condenser. Deep Well Boring Plant moved from foot of Monash Gully to boring site. - Consulted with D.A. & M.G. and agreed as to advisability of obtaining working parties for engine services direct from divisions instead of, as at present, from personnel employed under Commandant, Anzac Base. - Beyond the washing ashore of temporary sheeting for concrete work, no damage to piers throughout the day. - Informed Director Works required 2500 5' pickets for marking soldiers' graves. - Informed Commander tug "Hamburg" will be sent studios when weather permits. - Engr. in. Chief called for strength returns from units 1st & 15th each month. - applied Director Works for materials for 10,000 bunkers for troops.	

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Anzac	28-10-15		Water stored at 0600 - In Reservoir 35,000 - Tanks on Pipe line 18,000. Total 53,000 - also 25,000 gals. in iron lighters in lee of strainers "Milo" - Snaps on Pipe line placed on $\frac{1}{2}$ gallon ration - Navy unable to land water as canvas delivery hose from morning destroyed - So applied in afternoon to us to arrange, if possible, to receive water at North Beach - decided to run 3" iron pipe off our main at Reserve Gully to connect near "Milo" with abandoned hose from motor lighter - and to put in cut off at main near Pump House, Anzac Beach, to lead to tanks, Anzac Beach - intention is that motor lighter will deliver water back through main to tanks, whence our pumps will raise it to Reservoir - Visited 1st Aust. Div. on right flank - 3rd Bde. Pyrie's Post & Chatham Post - Inspected & issued instructions re demolitions Brighton Beach Pier no longer required - Visited North Beach with N.T.O. & consulted re water supply from motor lighter in lee of "Milo" - Wired Director Works re two 7 H.P. Blackstone engines for water supply N.T.O. and 54th Div. (up Chilak Shree & Aghal Shree) - also re materials required to complete piers - Sent to Engr. in Chief. Progress Report with ending 23-10-15 with last status record re "Wheatbary" on 20-10-15 - No progress on piers owing to rough water - other works as usual - Consulted D.A. & M.G. and C.G.G.S. re personnel from Div. for employment on Engineer works.	Appx 3
	29-10-15		Water stored at 0600 - Reservoir 11,000. Pipe line 18,000. Total 29,000 - also 25,000 in iron lighters in lee of "Milo". Motor lighter same alongside Watson's Pier 0800 and delivered ashore - Snaps on Pipe line placed on full ration for to-day - Motor lighter arrived from Dubrov with balance Caudroning Plant but unable to complete discharge before dark - At Conference D.A. & M.G., N.T.O., Commandant Anzac Base and C.E. it was decided - i. a pier will be required from "Milo" to shore - but no concrete work will be necessary as N.T.O. will sink two lighters in lee of "Milo" to act as breakwater to pier - I suggested the pier as preferable to a "causeway" proposed by N.T.O., as more practical means of obtaining communication - ii. Encouraging at Wellman's & Watson's Piers, except at pier heads, will be unnecessary as small craft will not shelter at these piers in rough weather. iii. Large iron water lighters, when empty, will be sent to Dubrov for safety and then to be held in reserve. iv. Causeway Anzac Beach will be moved, inshore - Completed pipe connections to receive water from motor lighter at "Milo" and at 2000 water was delivered at tanks Anzac Beach & raised by our pumps to Reservoir - Lirito Bowra & Shaw & 3 more asphyxiated Lone Pind, 2nd Aust. Div. after detonating ammonal charge - 10th. Elliott, Major Mervin, 17 others suffering from gas poisoning - Lirito Bowra entered gallery too soon after explosion - other casualties occurred in rear of 1st. Div. - D.A. & M.G. working parties required for Engineer works - Asked N.T.O. to order tug "Humbly" to Dubrov - All Australians on engineer works withdrawn by Anzac Base at 1200.	

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Anzac	30-10-15		Water stored at 0600. Reservoir 30,000. Pipe line 33,000. Total 63,000. - all labour except 18 men of Gurkhas (working at Condenser Site) withdrawn by Commandant, Anzac Base at 1200. - Camp Egyptian Labour Corps shelled last evening. - as result the men declined to work to-day and asked to be sent from Anzac. - matter being dealt with by D.A. & M.G. Motor lighters with balance of Condenser Plant arrived from Jumbros 1600 and being discharged. - "Wexford Coast", with missing timber arrived 1300 and discharging rapidly. - Ceased jumping at 2400 last night owing to leaks in main tanks at Reservoir. - since repaired. - added 4,000 gals. tanks to storage at Anzac pumps. - now 6 in use. - Pile driving shore bay Watsons Pier. - removing earth from Condenser site. - Enemy shelled derrick of Boring Plant, Monash Gully, last evening. - no damage. - Landed derrick in the night. 30 no shelling to-day. - probable, though, a safer site will have to be selected. Received water from "Milo" 1900. - 3.00 in C. (General Munro) visited Anzac. - little progress on works owing to lack of labour. - Jug "Hamburg" left for Menderos 1300. - Informed Engr. in-Chief 9 subalterns required for Camps.	
	31-10-15		Water stored at 0600. Reservoir 38,000. Pipe line 31,000. Total 69,000. - Discharging Condenser Plant from motor lighters. - also missing timber from "Wexford Coast". - Part of Egyptian Labour Corps resumed work at Camps. Hdqrs. huts - and obtained 30 Gurkhas for clearing Condenser site. - making emplacement for Hdqrs. Electric Light Plant. - no additional labour available. - Selected new, more protected site for Deep Well Boring. about 200' further up Monash Gully. - Inspected work Williams' Pier, and proposed site new pier to "Milo". - Blowing hard from SW. and rough sea at 2000 but did not prevent receiving water from 0800 to 1200 and 1300 to 1800 daily for employment on Engineer works. - Jug "Hamburg" arrived Menderos. - Instructions from Engr. in-Chief to include, in future Progress Reports, R.R. store ships unloaded and stores received. - Received from Engr. in-Chief 3 drawings Aerial Refuelling Russell's Port - Bridges' Road. with instructions Blackstone Engineer. - Sent draft Routine Order re. supply of timber, sandbags, iron & detached artillery and other units bivouacked in Diol. Areas and Anzac Base Area.	

3.12

AUSTRALIAN AND NEW ZEALAND ARMY CORPS.

Headquarters,
Oct 11th, 1915.

No. R.E. 1397.

From:- Chief Engineer

To:- Engineer-in-Chief,
Mediterranean Expeditionary Force.

Herewith Progress Report for week ending Oct. 9th.

W. Bussell

Brig. General. R.E.
Chief Engineer, Anzac.

3.13

CONFIDENTIALPROGRESS REPORT , ANZAC.Week ending Oct.9th.1915.

FORTIFICATIONS. 1st Aust.Division. Timber revetting in firing line. Second tier of mine galleries at Ryrie's Post commenced.

2nd Aust.Division. Progress in mining satisfactory.

N.Z.& A.Division. Entanglements, clearing and development of second line - two saps to overlook Sazli Beit Dere nearing completion - junction of line with Apex completed. At Apex improved fire trenches - increased entanglements and communication trenches - mining continued. At Cheshire Ridge improved parapets and trenches, and extended forward saps.

54th Division. Indian Brigade straightened re-entrant Susak Kuyu to Hill 60 and made good - front of Divnl area wired - average progress four mines at Hill 60, approximately 23 feet - soil very hard.

WATER SUPPLY

1st Aust.Division. New well deepened to 63 feet - no water - existing wells being improved.

54th Division. new pump well at 80 A Z yielding 24,900 gallons other wells yielded 18,000 gallons.

Anzac Base. Continued extension pipe lines towards trenches - completed 9th well, estimated yield 9,000 gallons - another well in progress - covered and fenced wells North Beach - tanks with pumps and hose being placed at four of them - on night of 8/9th the Greek water boat and wooden water lighter tied up at Watson's Pier broke adrift and went ashore - (lighter holed, patched and since floated). The damage to Watson's Pier (see below) severed both suction pipes to steam

3.14

pumps and water supply from Naval sources therefore ceased - Orders were at once issued to reduce the daily ration to half a gallon per man for all troops served from the pipe line - also to gravitate only to Right Flank from Reservoir on Plugge's Plateau - with these precautions there need be no anxiety for some days, meantime, it is hoped that the Naval authorities will send another lighter from Imbros while the supply from wells in the right flank is being developed - the large iron water lighter was sent to Mudros on 6th instant for repairs.

PIERS

Watson Pier - extension 20 feet seaward completed with two bays of L to North - two bays added also to No. 8 Pier, North Beach. In storm of night 8/9th drifting lighters did considerable damage carrying away 30 feet at shore end of No. 2 Pier and 40 feet at shore end of Watson's Pier - Nos. 7 & 8 Piers, North Beach being more sheltered from the South West suffered little damage in spite of the fact that heavy lighters were made fast to them - a somewhat unfair test for these light structures.

COMMUNICATIONS.

1st Aust. Division. 6 saps being widened to permit of pack mules conveying rations to rear of firing line - sap between 1st and 2nd Australian Divisional Headquarters in progress - Artillery road from Rest Gully to Russell's Top improved for guns.

N.Z. & A. Division. Completed mule paths up Chailak and Sazli Beit Dere - road from No. 2 Post to Anzac in progress and safe for small parties.

54th Division. Enlarged to cart track and deepened sap from Divisional Supply Depot to Divisional Headquarters. Completed sap connection to Indian Brigade Headquarters.

3.15
Anzac Base, North Beach. Roads and drains in and from Australian hospitals in hand - road to R.E. Stores completed.

HUTTING

1st Australian Division. Terraces in rear of firing line commenced - sleeping recesses cut in rear of firing line and in communication trenches where concealed.

Anzac Base. Huts for Corps Headquarters well in hand - Five huts for troops North Beach erected.

MISCELLANEOUS, Commenced work on ammunition terraces - terracing at Australian hospitals North Beach nearing completion - store yard and tunnels at Hell Spit completed - preliminary excavations at site of condensing plant completed - road to and emplacement at site for deep well boring plant completed.

MATERIALS.

Unloaded from R.E. storeship "Wheatberry" 60 tons wood, 84 tons cement, 10 tons corrugated iron sheeting, 2 tons small stores. Ship "Omonia" went to pieces in storm of night 8/9th - a considerable quantity of wood salvaged - details not yet complete, but they include the following:-

4"	x 4"	x 25'	=	12,625	r, feet.
3"	x 3"	x 13'	=	6,604	"
9"	x 2"	x 10'	=	9,680	"
4"	x 4"	x 5'	=	4,105	"

The progress in engineer works is much delayed owing to the lack of timber, planking and corrugated iron sheeting, but I understand that everything possible is being done to forward this from Mudros.

W.D. Smith

Brig. General. R.E.
 Chief Engineer, Anzac.

3.16

AUSTRALIAN AND NEW ZEALAND ARMY CORPS.

Headquarters,
Oct. 18th, 1915.

No. R.E. 1503.

From:- Chief Engineer

To:- Engineer-in-Chief,
M.E.F.

Herewith Progress Report for week ending Oct.
16th 1915.

M. B. Smith

Brig. General. R.E.
Chief Engineer, Anzac.

PROGRESS REPORT. ANZAC.Week ending Saturday Oct. 16th 1915.

FORTIFICATIONS. 1st Aust. Division. Trench revetting with timber and sandbags. Supervision of new firing line at Leane's Trench - at Ryrie's Post exploded a mine and continuing second tier of galleries - drainage of trenches well in hand.

2nd Aust. Division. Mining progressing satisfactorily.

N.Z. & A. Division. Adding to trenches & obstacles first line in and commanding Sazli Beit and Malone Gully (gully north of Walker's Ridge) - work on second line well advanced - improving trenches at Apex and commenced trenches for second tier of fire - adding to obstacles on Cheshire Ridge - mining progressing satisfactorily.

54th Division. Improving position on right flank 161st Brigade and constructing Snipers Post, machine gun emplacements and underground emplacement for 18 pdr. - wiring by night in front of 162nd Bde and Indian Bde advanced line also entanglements at Hill 60 and 163rd Bde. Supervision of traverses and improving trenches Hill 60 - mines towards five points in Turkish lines and towards two points in shelter in Turkish lines progressing satisfactorily - 100 Welsh miners drawn from Welsh Horse are being employed on this work.

WATER SUPPLY. 1st Aust. Division. Wells in area being timbered up and cleaned but yield is small - infantry working parties for sinking more not yet available.

2nd Aust. Division. Developing wells in Divl Area - present yield approximately 5000 gals. per diem.

N.Z. & A. Division. Developing wells Yield sufficient and pumps in good order.

54th Division. New (pump) well yielded 27900 gals - other

3.18

wells 17500 gals.

Anzac Base. Extension of pipe line towards trenches progressing - tanks at Victoria Gully moved to advanced site whence 2" pipe will be laid to Clark's Valley - Effects of damage on night 8th/9th have been rectified to extent that Greek water boat "Adelaide" and wooden water lighter have been floated and sent for repairs, former to Mudros, latter to Imbros, and that large iron water lighter has returned to Anzac and is now in use - temporary 3" suction laid also at Watson's Pier - On the night of 11th Inst. a motor water lighter at moorings about 200 yards from shore delivered water through a buoyed canvas hose to tanks on shore whence it was pumped to Reservoir - Though faulty hose there was considerable waste at this first attempt, but difficulties have since been overcome and this system of supply has been continued - The system is a great advance on that formerly in use and in that it opens up the possibility of landing water in rough weather but it requires development, and this is now receiving attention. A tenth well at North Beach completed, yield assessed at 8000 gals. per diem.

PIERS

Communication re-established at No.2 Pier over grounded Lighter - also with temporary trestle work at Watson's Pier L (45' long) at Watson's Pier completed except filling, and driver moved inshore for piling at temporary trestles - Williams's Pier repaired and one bay added - Piling at No.8 Pier completed.

COMMUNICATIONS.

N.O.B.E.

1st Aust. Division. Excavating communication trenches to permit of pack mules passing from main road in rear to trenches.

N.Z. & A. Division. Saps to overlook Sazli Beit nearing

3.

completion - saps at Cheshire Ridge to overlook dead ground in progress - Road to Anzac progressing - screens being erected where necessary.

54th Division. Completed cart road Supply Depot - Bully Cut Divl Hdqrs - also sap to join up with Indian Bde. Hdqrs - enlarged approached to 18 pdr gun emplacement. Other saps in progress. Tramways to No.2 Outpost complete to 1000' north of Mule Gully, formation of remainder ready and awaiting material - Roads and drains Aust. Hospitals, North Beach completed.

HUTTING.

1st Aust. Division. Recesses being dug and sites of huts selected - types have been circulated to Units.

N.Z. & A. Division. Units hard at work selecting sites and considering schemes; Engineers advising and suggesting.

54th Division. Dug outs are being excavated where possible and there has been considerable progress in this respect; supply of materials being limited, the issue is confined to dugouts which are passed as complete in other respects.

Anzac Base. Eight standard huts completed - considering in consultation with D.D.M.S., the possibility of increasing men for hut from 8 to 14 by slight structural alterations - If the change is possible it will result in a considerable saving of labour and material. Huts for Corps Headquarters making good progress considering lack of labour and material.

MISCELLANEOUS

New Bomb Factory completed and converted into an Ammunition Store. The manufacture of Bombs has been

4.

3.20

taken over by the Officer i/c Ammunition and the custody of Explosives by the A.D.O.S. Anzac - Concrete floor for Condensor completed and awaiting arrival of Plant - Terracing at Aust. Hospital, North Beach, completed to present requirements - and in progress for hutting of 1st Aust. Div.

MATERIALS.

PLANT

A consignment of tanks, pumps and piping, timber & corrugated iron sheeting expected in "WHEATBERRY" in a day or two - also Personnel & some Stores for deep-boring operations in Monash Gully.

X *first consignment* Tug "HAMBURG" arrived on 16th with one ^{X 5 1/2"} (3") "Burnside" borer and four trench pumps - Some heavy timbers being obtained from demolition of wrecked Lighters handed over to us by N.T.O.

PERSONNEL.

Strengths on 16-10-15:-

	<u>Officers</u>	<u>Others</u>	
Anzac Hdqrs	3	-	
1st Aust. Div.	7	141	(exclusive of Personnel at Mudros)
2nd " "	13	210	
N.Z. & A. Div.	6	118	do.
54th Div.	15	380	
Anzac Base.	9	101	
Average daily strength of Working Parties)			Military 264
at Anzac Base, week ending 16-10-15.			Civil 63

W. B. Hurli

Brig. General. R.E.
Chief Engineer, Anzac.

3.21

AUSTRALIAN AND NEW ZEALAND ARMY CORPS.

HEADQUARTERS,
October 28th 1915.

No. R.E. 1644

From:- Chief Engineer

To:- Engineer-in-Chief,
Mediterranean Expeditionary Force.

Herewith Progress Report for week ending 23rd Oct. 1915.

W. B. Leslie

Brig. General. R.E.
Chief Engineer, Anzac.

3.22
CONFIDENTIAL

PROGRESS REPORT. ANZAC.

Week ending 23rd Oct. 1915.

FORTIFICATIONS- 1st Australian Division. Supervision of construction of new machine gun emplacement and revetting of fire trenches, repairing of loopholes and parapets and erection of sand-bag screens in rear of fire recesses to blind loopholes. Commenced a sample shellproof dugout and exploded successfully a mine at "Ryrie's Post".

2nd Australian Division. Progress in mining satisfactory but rate variable. Some of the faces are very hard.

N.Z. & A. Division. Improved trenches and wiring of 1st Light Horse Bde, strengthened Malone Valley Post. Fire trenches at Apex, second tier trenches and second line trenches progressing, wire added at Cheshire Ridge.

Continuous mining work on four tunnels and two shafts.

54th Division. Supervision of all infantry working parties and of sapping at Hill 60 and new fire trenches. Completing gun emplacements for 18 pounders, machine gun emplacements, snipers post and a new fire post. Wiring in front of Indian and 161st and 163rd Brigades. At Hill 60 enemies' counter mine blown in resulting in a 5 foot breach in the enemies' gallery. At Norfolk Street Right Post a mine gallery and branch have been driven to within 20 feet of a bomb shelter in a Turkish trench.

WATER SUPPLY - 1st Australian Division. Wells have been cleaned out and timbered. Preparing platforms for canvas water troughs.

2nd Australian Division. Preparing platforms for canvas water troughs.

N.Z. & A. Division. Sazli Beit wells decreasing in output and yield at wells on beach slightly diminished. Have

reduced the issue from main well and increased it from other wells to even distribution.

54th Division. Cleaning and deepening wells. Excavating new wellshaft at water depot. Erection of a 2,300 gallon canvas tank, supervision of wells and pumps and drainage at water depot supply tanks.

Anzac Base. 1 inch pipe line Victoria Gully to Clark's Gully replaced by 2 inch. Installed petrol engine at Monash tank and laid pipe therefrom up valley to a point beneath Courtney's Post. Completed new No.7 well on North Beach 20 feet deep with 18 foot horizontal drive. Completed concreting round wells. Deep well boring plant (less tools) arrived and being assembled.

PIERS. - Completed pile driving to replace temporary trestle work at Watson's Pier but no material available for cross bracing. Attempted concreting of "L" but made little progress on account of the difficulty experienced in securing sheeting owing to rough water. Work at Williams' Pier, North Beach, suspended owing to lack of timber. Started pile driving to replace temporary trestle work at number 2 Pier, Anzac Beach.

COMMUNICATIONS- 1st Australian Division. Communication from Artillery Road to forward trenches progressing favourably, one trench being widened to admit passage of guns.

N.Z. & A. Division. Improved communications at 1st Light Horse Bde and continued saps to overlook Sazli Beit, also saps at Cheshire Ridge to overlook dead ground.

54th Division. Considerable additions and improvements to existing saps.

Anzac Base. Completed tramway siding to ammunition park.

HUTTING. 1st Australian Division. All available ground prepared for hutting of troops. Further progress impossible owing to lack of timber and corrugated iron sheets. Stabling for

3.

horses progressing.

N.Z. & A. Division. Troops employed tunnelling shelters owing to lack of timber and corrugated iron sheets.

54th Division. Units constructing dugouts under engineers' supervision.

Anzac Base. A standard hut to hold 14 men constructed. Progress on huts for headquarters satisfactory. Shelter 45 feet by 21 feet for wounded erected at 13th Casualty Clearing Station. Work on the Operating Theatres for 13th Casualty Clearing Station and 1st Australian Casualty Clearing Station in hand.

MISCELLANEOUS- One stranded lighter has been allotted to and is being demolished by each Division. Terraces on Anzac Beach for ammunition progressing.

MATERIALS. S.S. "Wheatberry" arrived on the 20th instant and was cleared on the 21st instant. She brought materials etc. as per list attached hereto.

PERSONNEL Strengths on 23rd October, 1915:-

	<u>Officers</u>	<u>Others</u>
Anzac Headquarters	3	-
1st Australian Div.	9	164
2nd do do	11	251
N.Z. & A. Div.	10	131
54th Division.	15	218
Anzac Base.	6	102

Average daily strength of working parties at Anzac Base for week ending 23rd Oct. 1915 = Military 191 and Civil 56.

W. B. Bessie

Brig. General R. E.
Chief Engineer, Anzac.

3.25

LIST OF MATERIALS ETC ON S.S. "WHEATBERRY".

(Arrived Anzac 20/10/15.)

Corrugated Iron, - sheets	-	-	605
Cement, - barrels	-	-	65
Tanks, - 1000 gals.	-	-	12
Tanks, - 400-500 gals.	-	-	3
Tanks, hot water (with handles complete)	-	-	30
(Boiler	-	-	1
(Derrick Braces	-	-	2
(Walling Brace	-	-	1
(Pole Derrick	-	-	1
(Front Wheels	-	-	2
Deep Well (Rear do	-	-	2
Boring Plant. (Cases	-	-	6
(Rope, bales.	-	-	2
(do reels.	-	-	2
(do coil.	-	-	1
French Wire, - coils	-	-	40
Wire Netting, - rolls	-	-	50
Piping 2" - running feet	-	-	100
Piping 3" - do do	-	-	1332
do 4" - do do	-	-	70
Spikes, - boxes	-	-	12
Nails, - do	-	-	22
Barrel Disinfectors with fittings,	-	-	26
Phantasas, with plugs, -	-	-	70
Mining Cases, sets, each 4 pcs,	-	-	100
Mining Sheeting, pieces	-	-	300
Pickets, iron, 3" bdles.	-	-	180
Trench Pumps, -	-	-	30
Winches, -	-	-	2
Dogs, - boxes	-	-	3
Pickets, 1'6", -	-	-	2500
do 5'x 4" x 4" -	-	-	900
Poles, 22½x 4" x 4" running feet	-	-	4180
do 13'x 3" x 3" do do	-	-	2860
Planks, 9'x 10" x 3" do do	-	-	1224
do 13'x 7" x 1" do do	-	-	4095
Sleepers -	-	-	162.

W.B. Smith

Brig. General. R.E.
Chief Engineer, Anzac.