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NOVEMBER 1944

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H.Q. R.A.A. 3 DIVISION

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

WAR DIARY of ~~INTELLIGENCE SUMMARY~~

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Army Form C.2118.
(Adapted.)

Unit HQ RAA 3 Aust Div (AIF) *Date and Time.—From* 1 Nov 44 *To* 30 Nov 44

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	1 Nov		(i) CRA (Brig B.E. KLEIN) attended staff conference at HQ 3 Aust Div - GSO I gave latest intelligence situation BOUGAINVILLE.	
			(ii) CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) visited temporary sites selected for HQ RAA 3 Aust Div, 2 Aust Fd Regt, 4 Aust Fd Regt and 2 Aust Mtn Bty and inspected preparation being done there.	
			(iii) CRA (Brig B.E. KLEIN) called on Comd US 37 Div Arty (Brig-Gen SLOCUM) and Comd AMERICAL Div Arty (Brig-Gen KREBER). Arrangements were made with Brig-Gen KREBER to park guns and vehicles on Ball Park of US Bns if required.	
	2 Nov		(i) CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) again visited selected temporary sites for RAA units. Work of clearing jungle was going along slowly.	
			(ii) CRA (Brig B.E. KLEIN) attended G conference at HQ 3 Aust Div where future planning was discussed. As a result BMRA (Maj G.D. BROWNE) was instructed to organise HQ RAA 3 Aust Div in preparation for this planning.	
			(iii) BMRA (Maj G.D. BROWNE) made an accomodation recce of US Arty camp sites with a view to the taking over of these sites by Aust Arty units. An accomodation appreciation was forwarded to 3 Aust Div	See Appendix 1

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Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	3 Nov 44		(i) CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) inspected progress of work at camp sites of Arty units. Work is going well, but the areas will be muddy and uncomfortable for a while until troops have settled in.	
			(ii) CRA (Brig B.E. KLEIN) visited TOROKINA strip, where he inspected the AUSTER III a/c which will be used as Air OP in operations in BOUGAINVILLE - performance of aircraft 1¼ hrs against Piper Cubs 3 hrs seemed a little disappointing, together with the fact that an Aust engine installed, necessitated a strip 300^{X} by 50^{X} in place of Piper Cubs 100^{X}.	
	4 Nov 44		(i) Liberty Ship "LINDLEY M GARRISON" with troops of main body of HQ RAA 3 Aust Div and 4 Aust Fd Regt arrived this afternoon. As weather was bad CRA (Brig B.E. KLEIN) arranged that troops would not be disembarked until early to-morrow.	
			(ii) CO 4 Aust Fd Regt (Lt-Col E WOODALL) disembarked at 1400 hrs and visited CRA (Brig B.E. KLEIN). He reported that it had only been a fair trip from LAE. Weather had been rough and food on board was not good. Loading was upset at LAE by last minute changes and tents, instead of being on vehicles are loaded in all parts of ship. This is evidence of poor organization by Movt Control and Port Control etc.	
			(iii) CRA (Brig B.E. KLEIN) accompanied by CO 4 Aust Fd Regt (Lt-Col E WOODALL) visited Brig-Gen KREBER, Comd 37 US Div Arty and CO 140 US Arty Regt, Lt-Col WEISLER to make	

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Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
	4 Nov 44		arrangements for parking of 4 Aust Fd Regt guns 140 US Regt area.	
	5 Nov 44		(i) CRA (Brig B.E. KLEIN) saw troops of HQ RAA and 4 Aust Fd Regt disembark on the beach and leave for camp sites in torrential rain. On arrival at area men had immediately to erect two-man tents again in pouring rain. Despite the difficulties (all were soaked to the skin) the men were smiling and morale was definitely high - CRA greatly impressed.	
			(ii) CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) visited camp sites of HQ RAA and 4 Aust Fd Regt and watched and spoke to the men settling in. Camp sites were wet and muddy but men worked hard and by nightfall had a dry place to sleep - again cheerfulness of men was most evident.	
	6 Nov 44		(i) Although the weather was still adverse, heavy showers falling most of the day, there were sufficient breaks to enable tents to be erected. Stores arrived during the day and by nightfall most tents were erected. Stores were delivered during the night and parties loaded stores at Transit Dump and unloaded them at camp site during night.	
			(ii) GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) accompanied by GI (Col EDGAR) visited HQ RAA 3 Aust Div and spoke to the troops. Accompanied by CRA (Brig B.E. KLEIN) and BMRA (Maj G.D. BROWNE) Maj-Gen W BRIDGEFORD visited 4 Aust Fd Regt. He was quite impressed by high spirit and morale of troops.	

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Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	7 Nov 44		(i) CRA (Brig B.E. KLEIN) called on Comd 37 US Div Arty (Brig-Gen K KREBER) and discussed dispositions for taking over role of 37 US Div Arty by Aust Arty. Recce of NUMA NUMA Trail by CO 4 Aust Fd Regt (Lt-Col E WOODALL) was also arranged.	
	8 Nov 44		(i) CRA (Brig B.E. KLEIN) accompanied by CO 4 Aust Fd Regt (Lt-Col E WOODALL) and OC 2 Aust Mtn Bty (Maj W.R.D. STEVENSON) called on Comd AMERICAL Div Arty (Brig-Gen SLOCUM). Recce of NUMA NUMA Trail by Lt-Col WOODALL and Maj STEVENSON was discussed and arrangements made for this recce to be carried out. Arrangements were also made for recce of the JABA R area by CRA (Brig B.E. KLEIN) and BMRA (Maj G.D. BROWNE). Brig-Gen SLOCUM was most helpful and tentative training areas and allocations for Arty Range were discussed.	
			(ii) 2 i.c. 2 Aust Fd Regt (Maj V TRUDA) and SC(L) (Capt G.B. DAVIS) arrived by air from LAE. CRA (Brig B.E. KLEIN) took them on recce of TOROKINA area.	
	9 Nov 44		(i) CRA (Brig B.E. KLEIN) accompanied by CO 4 Aust Fd Regt (Lt-Col E WOODALL) and OC 2 Aust Mtn Bty (Maj W.R.D. STEVENSON) carried out a recce of OP Saddle near Hill 250 with the object of determining the value of the area as an Arty Range. The area is restricted but will give OPOs and gunners local experience and shooting into jungle country.	
			(ii) CRA (Brig B.E. KLEIN) briefed CO 4 Aust Fd Regt (Lt-Col E WOODALL) and OC 2 Aust Mtn Bty (Maj W.R.D. STEVENSON) in reference to their projected recce along NUMA NUMA trail during next four days.	

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TOROKINA	9 Nov 44		(iii) CRA (Brig B.E. KLEIN) moved out to HQ RAA from HQ 3 Aust Div to take up residence.	
			(iv) BMRA (Maj G.D. BROWNE) the A/IORA (Lt F.J.I. LOWRIE), Sig Offr (Capt D O'NEIL) and Svy Offr 4 Aust Fd Regt (Lt BARWICK) carried out a recce of 37 US Div Arty positions with a view to RAA 3 Aust Div units taking over the defence of 37 Div portion of the perimeter after departure of 37 US Div - Recce showed Aust organization could fit into American quite effectively.	
	10 Nov 44		(i) CRA (Brig B.E. KLEIN) officially called on Comd Gen XIV US Corps (Gen GRISWELL) and NAVAL Comd NORSOLS (Commodore MORAN). CRA was well received. Offers of assistance and co-operation were given by both Comds.	
			(ii) 2 Aust Fd Regt party arrived by "J LYKES" last night, and stayed in 3 Aust Div Reception Camp. This morning they moved to 2 Aust Fd Regt area where they were "fostered in" by 4 Aust Fd Regt.	
			(iii) CRA (Brig B.E. KLEIN) saw GOC 3 Aust Div (Maj-GEN W BRIDGEFORD) who stated that - the very difficult operations ahead could only be carried out successfully by the extensive use of Artillery.	
			(iv) CO 4 Aust Fd Regt (Lt-Col E WOODALL) and OC 2 Aust Mtn Bty (Maj W.R.D. STEVENSON) set out on reconnaissance of NUMA NUMA Trail area.	

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Brig

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TOROKINA	11 Nov 44		(i) CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) and A/IORA (Lt F.J.I. LOWRIE) carried out a reconnaissance of the JABA River area. A battery of 25-pr Mk II or 25-pr Shorts can be sited to take over operations from US Cannon Coy at present supporting Infantry in that area, without difficulty apart from a rather extensive clearing tree programme that would take 3-4 days only.	
	12 Nov 44		(i) CRA (Brig B.E. KLEIN) held a conference of unit representatives, own staff and members of OP Flight. Those present included:- CO 4 Aust Fd Regt (Lt-Col E WOODALL) CO 2 Aust Fd Regt (Lt-Col A.E.H. PARKER) 2i/c 4 Aust Fd Regt (Maj F.D. STEVENS) 2i/c 2 Aust Fd Regt (Maj V.J.M. TRUDA) BCs 4 Aust Fd Regt (Maj A.J. BERRY, Maj B.A. YOTT, Capt C.J. DeYOUNG) BCs 2 Aust Fd Regt (Maj F.J.I. POWELL, Maj A.E. OLSEN) Maj F.J.C. WHITE, IO 2 Aust Fd Regt (Lt J.A. WHITE) Adjt 2 Aust Fd Regt (Lt R IRWIN) IO 4 Aust Fd Regt (Lt A.P. ATKINSON) Adjt 4 Aust Fd Regt (Capt A.H. MARTIN) ALO 5 Tac R Sqn (Capt BODE) and Pilots. The following matters were discussed - Intelligence information to date, GOC's policy and Trg and Administration while units in temporary sites here.	
			(ii) After the conference CRA (Brig B.E. KLEIN) discussed with ALO 5 Tac R Sqn (Capt BODE) and pilots of AUSTER a/c the value of getting to know the country immediately and immediate liaison with Arty officers.	
			(iii) RAA 3 Aust Div Tech Instr NG4 was issued.	Attached as Appendix 2

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Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	12 Nov 44		(IV) Signal ref Intelligence Conference and Summary was sent out to units.	- Appendix 3
			(v) RAA 3 Aust Div Adm Instr No 3 was issued	- Appendix 4
			(vi) RAA 3 Aust Div Trg Instr No 11 was issued	- Appendix 5
	13 Nov 44		(i) GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) visited CRA (Brig B.E. KLEIN) and together they inspected 2 Aust Fd Regt troops and area.	
			(ii) CRA (Brig B.E. KLEIN) prepared notes for GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) re employment of Arty on NUMA NUMA Trail and in JABA R Area.	
			(iii) Op Instr No 1 received from 3 Aust Div which covered movement of Bde Gp including one Bty 4 Aust Fd Regt up NUMA NUMA Trail and Bn Gp including one troop of 2 Aust Fd Regt to JABA R Area. The latter instruction made without reference to CRA (Brig B.E. KLEIN) splits the Arty fire unit.	
			(iv) LO 2 Aust Fd Regt (Capt J.C. KING) reported to take up his duties.	
			(v) Signal ref training areas was sent out.	- Appendix 6
			(vi) Recce Report relative to relief (if required) of 37 US Div Arty in defence of TOROKINA perimeter by RAA 3 Aust Div was sent to 3 Aust Div.	- Appendix 7

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Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	14 Nov 44	(i)	CRA(Brig B.E. KLEIN) called on GOC 3 Aust Div (MAJ- GEN W BRIDGEFORD) and GSO I 3 Aust Div (Col EDGAR) and discussed with them 3 Aust Div Op Instr No 1 issued yesterday without reference to RAA Recce Reports, also the fact that ammunition reserve not in accordance with US expenditure. GOC & GSO I agreed to increase SMOKE ammunition and to allocate one bty of 2 Aust Fd Regt to JABA R area. Arty officers carrying out Air Recces was also discussed with GSO I. In this regard, GOC 3 Aust Div must give approval in case of accidents.	
		(ii)	CRA (Brig B.E. KLEIN) discussed with CO 4 Aust Fd Regt (Lt-Col E WOODALL) and OC 2 Aust Mtn Bty (MAJ W STEVENSON) the employment of Arty on NUMA NUMA Trail, on their return from reconnaissance in that area. The decision reached was that 25-pr Mk II or Short guns could be used, but it would take a week to get them in and a week to get survey information to them.	
		(iii)	Recce Report ref relief of US Arty by Aust Arty in JABA River area was sent to 3 Aust Div.	- Appendix 8
	15 Nov 44	(i)	CRA (Brig B.E. KLEIN) held a conference of staff at which enemy OOB and Intelligence information was discussed. It was decided to hold a daily morning staff conference and a weekly Intelligence conference for unit representatives at 0900 hrs each Friday.	
		(ii)	CRA (Brig B.E. KLEIN) called on Comd 7 Aust Inf Bde (Brig FIELD) and discussed employment of Arty on NUMA NUMA Trail. The use of 25-pr Shorts and Mtn Bty were outlined, if agreed by GS.	

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Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	15 Nov 44		(iii) CRA (Brig B.E. KLEIN) conferred with GSO I (Col EDGAR) and outlined plan for employment of Arty on NUMA NUMA Trail. Approval was obtained to commence Svy, clearing gun area and movement of guns forthwith. A warning order was accordingly issued to 4 Aust Fd Regt through LO (Lt STOCKDALE)	
			(iv) GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) and GSOI (Col EDGAR) were CRA's guests at evening mess.	
			(v) LO 4 Aust Fd Regt (Lt E.H. STOCKDALE) reported to take up his duties.	
			(vi) Recce Report ref adopting existing US Survey in BOUGAINVILLE was sent to 3 Aust Div.	- Appendix 9
			(vii) Report on Arty Recce of NUMA NUMA trail was received from CO 4 Aust Fd Regt (Lt-Col E WOODALL) and OC 2 Aust Mtn Bty (Maj W STEVENSON)	- Appendix 10
			(viii) RAA 3 Aust Div Op Instr No 2, ref relief by 2 Aust Fd Regt of US arty in JABA River area, was issued.	- Appendix 11
			(ix) RAA 3 Aust Div Op Instr No 3, ref relief by 4 Aust Fd Regt of US arty in NUMA NUMA Trail area, was issued.	- Appendix 12
	16 Nov 44		(i) CRA (Brig B.E. KLEIN) received advice that 3 Aust Svy Bty had left mainland en route for BOUGAINVILLE.	
			(ii) Chaplains GALLAGHER and REID from 2 Aust Corps called on CRA (Brig B.E. KLEIN) to pay their respects.	

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TOROKINA	16 Nov 44		(iii) CRA (Brig B.E. KLEIN) attended AMERICAL Div Thankgiving Dinner as the guests of Comd Arty AMERICAL Div (Brig-Gen SLOCUM).	
			(iv) CRA (Brig B.E. KLEIN) forwarded Recce Report to 3 Aust Div with recommendations thereon.	Appendix 13
			(v) RAA 3 Aust Div Adm Instr No 4 was issued.	Appendix 14
	17 Nov 44		(i) CRA (Brig B.E. KLEIN) held a conference with GSO I (Col EDGAR), AQMG (Lt-Col WHEELER) and CO 4 Aust Fd Regt (Lt-Col E WOODALL) to discuss the siting of guns in proposed ANGAU and supply dump area. It was decided to carry out a combined Inf, Arty and Services reconnaissance on 20 Nov 44.	
			(ii) CRA (Brig B.E. KLEIN) held an Intelligence conference of all COs, 2 i/cs, BCs, IOs, Adjts and own staff. The complete intelligence of BOUGAINVILLE and enemy order of battle was given out.	
			(iii) CRA (Brig B.E. KLEIN) conferred with CO 4 Aust Fd Regt (Lt-Col E WOODALL) and CO 2 Aust Fd Regt (Lt-Col PARKER) re shooting 24-26 Nov 44, training programme generally and demonstration of Aust Rules Football.	
			(iv) ADMS 3 Aust Div (Lt-Col WALLACE) called on CRA (Brig B.E. KLEIN). The incidence of skin diseases and the necessity of engineer assistance in providing means of boiling clothes were discussed.	
			(v) HQ RAA 3 Aust Div Weekly Tech Arty I Summary No 1 was issued.	Appendix 15

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TOROKINA	18 Nov 44		(i) CRA (Brig B.E. KLEIN) visited gun parking areas of 135, 136, and 140 US FA Bns to see if they were suitable for Aust parking areas. CRA then called on Comd 37 US Div Arty (Brig-Gen KREBER) and conferred with him re swimming carnival.	
			(ii) Lt-Col FORREST and Maj POWELL (British Army) from MGO's Branch called on CRA (Brig B.E. KLEIN) and discussed various improvements required in equipment.	
			(iii) CRA (Brig B.E. KLEIN) held a conference with ALO 5 Tac R Sqn (Capt BODE) and representatives of Air OP Flight. Capt BODE was disturbed at RAAF restrictions. Alternative means of using the flight were discussed.	
			(iv) Arty Comd 37 US Div (Brig-Gen KREBER) and his executive officer (Col COOPER) were guests of the CRA at evening mess.	
			(v) Sig Offr (Capt D.H. O'NEIL) marched out to take up duties as Instructor NEW GUINEA Force School of Signals NADZAB.	
	19 Nov 44		(i) CRA (Brig B.E. KLEIN) accompanied by his guests, Arty Comd AMERICAL Div (Brig-Gen SLOCUM) and his executive offr (Col LANDERS) attended the 3 Aust Div Surf Carnival held at TOROKINA beach. 2 Aust Fd Regt team won the premiership. CRA (Brig B.E. KLEIN) passed congratulations of GOC 3 Aust Div (Maj-Gen BRIDGEFORD) to CO 2 Aust Fd Regt (Lt-Col PARKER) for promulgation in unit routine orders.	
			(ii) CO 4 Aust Fd Regt (Lt-Col E WOODALL) called on CRA (Brig B.E. KLEIN) and reported on recce with CO 9 Bn.	

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TOROKINA	20 Nov 44		The battery position has been approved and preparations are going ahead. Registration of targets particularly and need for precision in registering each gun was discussed.	
		(iii)	Historical Public Relations officer called and made arrangements for photographing guns getting in and survey information on ~~NUMA NUMA Trail~~.	
		(iv)	ALO 5 Tac R Sqn (Capt BODE) called on CRA (Brig B.E. KLEIN) and reported that pilots dislike Army officers carrying out air shoots and RAAF instruction issued to effect that RAAF pilots would conduct air shoots. As applied to Auster III Aircraft this is directly raison d' etre of their provision i.e. an elevated OP for Arty Officers. If insisted upon this restriction will mitigate against Auster III co-operation.	
	21 Nov 44	(i)	ADOS 3 Aust Div (Lt-Col CALEY) called on CRA (Brig. B.E. KLEIN) and paid his respects.	
		(ii)	GSO I 3 Aust Div (Col EDGAR) called on CRA (Brig B.E. KLEIN). Matters discussed were recce flights and permits for officers to visit NUMA NUMA area on recces - general lack of Arty advice from bty now under comd of 9 Bn also difficulties connected with Air OP Flight.	
	22 Nov 44	(i)	CRA (Brig B.E. KLEIN) made an air recce flight in a Piper Cub a/c of SISIVIE - IBU area with a view to selection of targets for zone registration. A similar recce of JABA R area was also carried out.	
			CO 4 Aust Fd Regt and TC, E Tp 4 Aust Fd Regt (Capt A.M. KOCH) followed CRA on recce in separate machines.	

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Brig

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TOROKINA	22 Nov 44	(ii)	CRA (Brig B.E. KLEIN) accompanied by SC(L) (Capt G.B. DAVIS) attended a conference held by AQMG 3 Aust Div (Lt-Col WHEELER) to discuss selection of site for HQ RAA. A recce of proposed area was carried out. The site selected is quite satisfactory.	
		(iii)	CRA (Brig B.E. KLEIN) staff entertained Brig-Gen SLOCUM and Col LANDIS of AMERICAL Div Arty and Comd 15 Aust Inf Bde (Brig HAMMER) and his BM (Maj) at dinner in the evening.	
	23 Nov 44	(i)	CRA (Brig B.E. KLEIN) accompanied by Amen Offr (Lt F.J.I. LOWRIE) visited AMERICAL Div, Bn Gp exercise. CRA met and discussed exercise with Comd AMERICAL Div Arty (Brig-Gen SLOCUM) and Col MACQUARIE.	
		(ii)	CRA (Brig B.E. KLEIN) called on CCRA 2 Aust Corps (Brig W.E. CREMOR). The former urged necessity for tracked tractors, survey battery and possibly medium artillery at a later stage of the operations. The function and role of Auster III a/c was another point of discussion.	
	24 Nov 44	(i)	CRA (Brig B.E. KLEIN) attended GOC's conference at HQ 3 Aust Div. Matters discussed were role of arty to defend whole of TOROKINA perimeter and unsatisfactory and disappointing performance of Air OP (Auster III) Flight. GOC will take up the latter matter.	
		(ii)	BMRA (Maj G.D. BROWNE) acted as IG at shoot of 2 Aust Fd Regt - the first practice shooting by RAA 3 Aust Div carried out on BOUGAINVILLE. CRA (Brig B.E. KLEIN) accompanied by CCRA 2 Aust Corps (Brig W.E. CREMOR) witnessed the shooting which was concentrated on	

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TOROKINA	24 Nov 44		precision shooting and fire on pin point targets. The CRA was pleased with shooting which was generally accurate and quite impressive, although inclined to be slow.	
	25 Nov 44	(i)	CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) was again present at 2 Aust Fd Regt's shooting practice. 25-pr Short battery was in action but was not as good as yesterdays practice. Several American officers were present to see the guns fire.	
		(ii)	CCRA 2 Aust Corps (Brig W.E. CREMOR) visited bty area and discussed platforms for 25-pr Shorts with the men.	
		(iii)	CRA (Brig B.E. KLEIN) accompanied by SCRA (Capt G.B. DAVIS) visited US v AUST Baseball Match which was won by the Australians.	
		(iv)	In the evening CRA (Brig B.E. KLEIN) attended boxing contests at 182 US Inf Regt sports arena where boxers from 4 Aust Fd Regt gave a good account of themselves.	
	26 Nov 44	(i)	CRA (Brig B.E. KLEIN) witnessed the final day of 2 Aust Fd Regts shooting practice. OPOs again were too academic and not sufficiently flexible either tactically or technically to apply experience to each different type of target. Infantry offrs from 29 Aust Inf Bde indicated targets very well. The importance of close co-operation between Inf and Arty was stressed. CCRA 2 Aust Corps (Brig W.E. CREMOR) was also present at the shoot.	
	27 Nov 44	(i)	CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) and other members of his staff attended the demonstration of Aust Rules football between 2 Aust Fd Regt and 4 Aust Fd Regt.	

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B.E. Klein Brig

WAR DIARY ~~or INTELLIGENCE SUMMARY~~

(Erase heading not required.)

Army Form C.2118.
(Adap ed.)

Unit HQ RAA 3 Aust Div (AIF) *Date and Time.—From* 1 Nov 44 *To* 31 Nov 44

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	27 Nov 44		The game was quite exciting and watched with interest by a ~~big crowd which included~~ GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) Comd AMERICAL Div Arty (Brig-Gen SLOCUM) and other US offrs.	
		(ii)	Chaplain R.P. O'SULLIVAN reported to CRA (Brig B.E. KLEIN) on his attachment to this HQ.	
	28 Nov 44	(i)	CRA (Brig B.E. KLEIN) at morning conference gave directions ~~for the reorganisation of the Q Branch of the HQ,~~ conducting of fuller staff conferences daily.	
		(ii)	CRA (Brig B.E. KLEIN) discussed latest developments of Air OP work with BM (L) Capt LORD in preparation for interview with GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) tomorrow.	
		(iii)	CRA (Brig B.E. KLEIN) called on Bde Comd 7 Aust Inf Bde (Brig FIELD) and discussed with him Arty on NUMA NUMA trail. Visit of 12 Bty position on Thursday 30 Dec 44.	
		(iv)	RAA 3 Aust Div Trg Instr 13 was issued	- Appendix 19.
	29 Nov 44	(i)	CRA (Brig B.E. KLEIN) accompanied by BM(L) Capt J LORD called on GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) and discussed with him the latest teachings of CANBERRA School are being disregarded. There will be no Air OP shoots until the situation is clarified.	
		(ii)	As a result of GOC 3 Aust Div (Maj-Gen W BRIDGEFORD) comments on slackness in the Regts, CRA (Brig B.E. KLEIN) spoke strongly to the CO 2 Aust Fd Regt (Lt-Col PARKER) and CO 4 Aust Fd Regt (Lt-Col E. WOODALL) on the subject.	

B.E. Klein Brig

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WAR DIARY ~~OR INTELLIGENCE SUMMARY~~

(Erase heading not required.)

Army Form C.2118.
(Adapted.)

Unit HQ RAA 3 Aust Div (AIF) *Date and Time.—From* 1 Nov 44 *To* 31 Nov 44

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	29 Nov		(iii) 12 Bty, 4 Aust Fd Regt were in action this morning in support of a successful attack by D Coy 9 Bn on LITTLE GEORGE feature.	
			(iv) RAA 3 Aust Div Op Inst No 5 ref Passive Air Defence TOROKINA area was issued.	- Appendix 20
30 Nov 44			(i) CRA (Brig B.E. KLEIN) accompanied by BMRA (Maj G.D. BROWNE) CO 4 Aust Fd Regt (Lt-Col E WOODALL) and Amenities Offr (Lt F.J.I. LOWRIE) went up NUMA NUMA Trail to inspect 12 Bty position and discuss difficulties with A/BC (Capt DE YOUNG) On the way CRA contacted CO 9 Aust Inf Bn (Lt-Col MATTHEWS) and discussed need for move of a troop forward to cover SISIVIE area or use of Mtn Bty. It was ascertained that range was almost 9300 yds or less, so guns can cover SISIVIE from present position. Troops have done a great deal of hard work in preparing position but morale is high following support given to Inf yesterday both in successful attack and beating off Jap counterattack last night. It was decided that more increment charges are needed owing to short ranges and crest clearance problem and an urgent demand was submitted by CRA to Div.	
			(ii) RAA 3 Aust Div Trg Instr 14 was issued.	- Appendix 21
			(iii) CRAs (Brig B.E. KLEIN) Monthly Letter to MGRA (Maj-Gen J.S. WHITELAW) was despatched.	- Appendix 22
			(iv) Field Returns of Offrs & ORs on 4 Nov 44 are attached.	- Appendix 23

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WAR DIARY ~~of INTELLIGENCE SUMMARY~~

(Erase heading not required.)

Army Form C.2118.
(Adapted.)

Unit HQ RAA 3 Aust Div (AIF) *Date and Time.—From* 1 Nov 44 *To* 30 Nov 44

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
TOROKINA	30 Nov 44		(v) Article "Life in MARKHAM VALLEY, WAWIN" by Sjt PENWILL	- Appendix 24
			(vi) Article "By Ship to BOUGAINVILLE" by WO I ADAMS	- Appendix 25
			(vii) Article "First Impressions of TOROKINA" by Sjt WICKHAM	- Appendix 26

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appx 1 War diary

TOPSECRET

Subject: ACCOMMODATION APPRECIATION RAA 3 AUST DIV
(See attached XIV CORPS ROAD MAP)

HQ RAA 3 AUST DIV

2 NOV 44.

HQ 3 AUST DIV

1. OBJECT

To view existing Arty Areas 37 US DIV with a view to occupancy by HQ RAA 3 Aust Div and units RAA 3 Aust Div.

2. CONSIDERATIONS AND FACILITIES RE 37 US DIV ARTY AREAS AVAILABLE

(a) AREA 1

Present Occupancy. HQ & Service Bty 6 US Fd Arty Bn.

Facilities. (i) Small area adjacent to HQ 3 Aust Div.
(ii) Mess Huts.
(iii) Officer's Mess
(iv) Tent Frames and floors suitable as Offices.
(v) Kitchen.

Suitability. (i) HQ RAA 3 Aust Div
(ii) Mtn Bty
(iii) Svy Bty

(b) AREA 2.

Present Occupancy. 135 US Fd Arty Bn complete.

Facilities. (i) Five sets of kitchens, tent frames, etc
(ii) Hand standings for guns and amn dump.
(iii) Special amn area.
(iv) Gun positions for defence of perimeter.

Suitability. A Field Regt RAA.

(c) AREA 3.

Present Occupancy. 140 US Fd Arty Bn complete.

Facilities. Same as for Area 2 above, but generally with better conditions, incl gun positions for defence of perimeter.
An added advantage is the healthiness of the area, being close to the river and sea.

Suitability. A Field Regt RAA.

(d) AREA 4.

Present Occupancy. Firing Btys only of 136 US Fd Arty Bn.

Facilities. (i) Smaller area with complete administrative layout.
(ii) Healthy area.
(iii) Good standings for guns.

Suitability. Either or both Mtn Bty or Svy Bty RAA.

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(e) AREA 5.

Present Occupancy. HQ Service Bty 136 US Fd Arty Bn plus HQ Div Arty.

Facilities. Good general facilities similar to Area 4.

Suitability. Either or both Mtn Bty or Svy Bty RAA.

(f) AREA 6.

Present Occupancy. Two separate gun areas of 6 US Fd Arty Bn.

Facilities. Buildings exist, but terrain NOT suitable for Camp Site.

Suitability. Nil.

3. RECOMMENDATIONS.

(a) AREA 1.

Recommended as HQ RAA 3 Aust Div in view of general proximity and existing accommodation.

(b) AREA 2.

Regimental Area - suggest allot to 2 Aust Fd Regt.

(c) AREA 3.

Regimental Area - suggest allot to 4 Aust Fd Regt.

(d) AREA 4.

Recommended allocate to both 2 Aust Mtn Bty and 3 Aust Svy Bty.

(e) AREA 5.

Alternate recommendation to (d) above, but Area 4 is preferred.

(f) AREA 6.

Not recommended for occupation.

4. IMMEDIATE ACTION SUGGESTED.

(a) Ball park and/or parade ground in Area 3, as offered and suggested by HQ Div Arty 37 US Div, be used to park guns, heavy stores, ammunition, etc, 4 Aust Fd Regt ETA 3 NOV 44. HQ 37 US Div Arty will ration and accommodate guard personnel required for such stores.

(b) Ball park and/or parade ground in Area 2 be used vide 4 (a) above for 2 Aust Fd Regt guns, ammunition, etc, ETA 10 NOV 44

(c) Ball park and/or parade ground in Area 4 be used vide 4 (a) above for 2 Aust Mtn Bty guns, ammunition etc, ETA 10 NOV 44.

(B E KLEIN) BRIG.
CRA 3 AUST DIV

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

AWM 1B

War Diary

SECRET

HQ RAA 3 Aust Div (AIF)
S22/17
16 Nov 44

RECCE REPORT FROM THE ASPECT OF AUSTRALIAN ARTILLERY TAKING OVER FROM US ARTILLERY ON NUMA NUMA TRAIL AREA, AND FURTHER ASPECTS RELATIVE TO SUBSEQUENT OPERATIONS IN THAT AREA

3 Aust Div

1. The above is attached.

2. The following comments and observations and recommendations are submitted:-

(a) One bty 25-pr Short equipment be used to relieve US Arty in this area.

(b) The bty area be vicinity 648112.

(c) That a Fd Arty Regimental Survey Party commence Arty Svy forthwith from existing Astrofix data of 2 Svy Coy RAE with ultimate object of tieing in gun and target fixations. This survey is estimated to take approx 10 days.

(d) That existing US Arty Line communications be taken over.

(e) That a Fd Arty working party, supplemented by Engineer assistance if possible, be permitted to proceed to the proposed bty area without delay to commence clearing.

(f) That sufficient barbed wire to construct approx 600M of double apron fence for perimeter defence of bty area be allocated to the bty.

(g) The recce statement vide 5(b) should be verified from other sources.

3. Additional Recommendation relative to subsequent operations in this area:

For operations in this area it is further recommended that a Mtn Bty be employed in this area in addition to the Fd Bty already mentioned as relief.

The advantages are:-

(a) The provision of equipment to advance with infantry.

(b) Provision of extra fire power, by "linking" Mtn Bty to Fd Bty for concentrations of fire.

(c) Provision of a portable equipment that can easily be taken far forward and effectively used for sniping purposes.

B E K Klein Brig.

(B.E. KLEIN) CRA 3 Aust Div (AIF)

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

SECRET

15 Nov 44

RECCE REPORT FROM THE ASPECT OF AUSTRALIAN ARTILLERY TAKING OVER FROM US ARTILLERY ON NUMA NUMA TRAIL AREA, AND FURTHER ASPECTS RELATIVE TO SUBSEQUENT OPERATIONS IN THAT AREA

Ref Map: TOROKINA 1" to 1 mile

1. PRESENT DISPOSITIONS:

As shown on trace "A" att.

2. TERRAIN:

(a) The vehicle track follows the bed of LAKUMA River to its junction with DOYABIE thence to approx 648113 from whence a foot pad leads to fwd Coy HE of PIATERAPAIA 663231. A branch foot pad leads from 632077 to NIP HILL block at 632114 thence to SISIVE.

(b) The river valley is very narrow and there are many crossings passable only to 3 tonners - foot traffic being impracticable without installing "flying-foxes" or bridges. The sides of the valley are steep and heavily timbered.

(c) The vehicle road will require constant maintenance and tracked tractors will be required in rescue of stranded vehicles and gun hauling.

3. METEOROLOGICAL:

Heavy rains are experienced and it is expected that these will become more frequent over the months of Nov & Dec. After those heavy rains all crossings may be impracticable.

4. OPs:

A general view of the terrain is available from NIP HILL and an FOO will be required at PIATERAPAIA. Observation in SISIVE area is possible only to FOO or Arty/R. The rugged nature of the country and the extreme length of wire will produce such difficulties that it is recommended that Arty/R be used.

5. GUN POSITIONS:

(a) Present arty consists of 1 bty 155-mm hows at 619065. Possible positions for 25-pr and 75-mm pack how exist at (a) 629066, (b) 648106 and (c) 648112. From (a) the LESIAPIA area can be engaged at 10,000ˣ. From (b) and (c) both LESIAPIA and SISIVE areas can be engaged at ranges of 5000ˣ and 11,500ˣ from (b) and 4300ˣ and 11,000ˣ from (c). Angle of sight of up to 5° will be experienced.

(b) In regard to SISIVE the position shown on 1" map appears to be in error and ranges given are based on 1:20,000 map and Q.E. obtained from firing data of 155mm hows adjusted approx for angle of sight, non rigidity and meteor.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

5. (cont'd)

(c) In addition 75-mm pack howe could be used on both areas from the NIP HILL feature at ranges of 5000 and 9000. In this case approx 50 native porters would be required for L of C.

(d) In support of further advance 75-mm howe could similarly be maintained on PIATERAPAIA ridge, and from positions (b) and (c) 25-prs can reach beyond the main divide of the island. 25-pr Mk II and 25-pr Short equipments are usuable in this area - the 25-pr Mk II has extra range as against greater portability for any subsequent advances where 25-pr Short is more effective.

6. OCCUPATION:

It is estimated that position (a) could be occupied in approx 4 days and positions (b) and (c) in approx 4 to 7 days. In each of (b) and (c) separate gun pits will be required for each of LESIAPIA and SISIVE areas.

75-mm How position on NIP HILL would require 10 days with the use of 50 porters incl 1st line amm.

Tracked tractors are essential for the above timings. If 3-tonners only are available guns should be carried portee. If towed by tractors guns should be stripped of shield and sight bracket.

Engineer assistance (bulldozing "tracks in" and felling trees with explosives) is also necessary.

7. SURVEY:

No survey exists at present. It is estimated that survey could be taken to position (c) from the first LARUNA crossing in 10 days by a combination of traverse and minor triangulation. Survey to the OP area should be the subject of a separate recce, but it is suggested that a triangle NIP HILL - PIATERAPAIA - HILL 900 in Sq 6199 might be possible (the distance NIP HILL - PIATERAPAIA being obtained by a sub-tense.

The present 1" map is unsatisfactory for arty shooting purposes.

8. COMMUNICATIONS:

Existing American communications are shown on trace B att. It is understood that this cable will be left by US arty.

W/T will suffice for rear-link but if line is laid it should be a Div Sig responsibility.

9. INCREMENT CHARGES:

The steep nature of the country makes the provision of increment charge most desirable.

10. PROTECTION:

Sufficient barbed wire to construct 600^{2} of double apron fence for perimeter defence of bty area is required.

11. COMMAND:

No additional staff are considered necessary.

BCK

(Sgnd) B. WOODALL Lt-Col RAA
(Sgnd) W.R.D. STEVENSON Major RAA

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

SECRET

a/f x 2

12 Nov 44.

RAA 5 AUST DIV (AIF)

TECHNICAL INSTN NO 4

1. OBJECT :

The object of this instruction is to promulgate to units under command this HQ such matters contained in HQ RA MONTHLY LETTER No 22 - Sep 44 as require action by or are of general interest to field gunners.

COs will ensure that the contents of this instruction are promulgated as widely as possible among officers within their commands.

2. BLINDS :

Live ammunition or blind shell have recently been the cause of fatalities. Although there is no indication that RAA are concerned it is requested that Regt Cmds ensure that the necessity for location and destruction of blinds be brought home to all officers.

3. TEMPORARY DEAFNESS FOLLOWING EXPOSURE TO GUNFIRE

No 29 memo to be issued by the Operational Research Section is reproduced hereunder. In view of its importance to gunners it is considered that it should be given the widest possible publicity.

"Although it is laid down in CRO 6725/1943 that commanders will ensure that ear protectors are worn during firing, by gun detachments, firers of projectors and crews of mortars, many such personnel are not fully aware of the importance of protecting hearing during artillery and mortar fire.

It is recognised by gunners that, without protection, a ringing in the ears or temporary deafness may be produced, but the serious nature of this is not generally impressed upon them. This kind of deafness is most noticeable with faintly audible sounds; it is not so obvious (depending on its severity) at the level of ordinary speech, and for this reason it tends to be ignored. Many men express the view that they are "too tough" to wear ear protectors or that they have become accustomed to the weapons and can do without it.

Experiments carried out recently with coast defence guns and field artillery have shown that temporary deafness lasting from a few hours up to seven days was obtained with the 17-pr T/A gun with muzzle brake, the short 25-pr, the 25-pr MkII, the 18-pr, the 3.7" AA and the 6" Coastal Defence Gun. This was most marked with the 17-pr, the short 25-pr, the 18-pr and the 3.7" AA gun.

It should be pointed out that in all of the experiments the exposures were mild compared with what may be expected in action. Nevertheless, deafness of sufficient degree seriously to impair the efficiency of men as sentries was produced. In conditions of quiet when an enemy may betray his presence by the least noise, threshold hearing loss becomes of the greatest importance. It means that the distance at which a sentry may just hear voices, footfalls, or vehicles will be considerably reduced. Moreover, usually one ear is more affected than the other; this means that not only will such a man have a threshold hearing loss but his ability to determine from which direction the sound comes may be seriously impaired. The importance of this is obvious.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

3. (Cont'd)

Those facts emphasize the importance of protecting ears during the whole period of action. At present a piece of clean dry cotton wool is the most readily obtainable means of protection, but shortly, properly designed plugs will be available. It is important to impress upon gun detachments and crews of mortars that it is not as some have remarked, "sissy" to wear ear plugs but that the care of their ears is an important military duty".

4. FIELD MARSHAL KESSELRING'S PAY :

"A captured slip shows the Commander-in-Chief, SOUTHWEST's pay for the month of June. His total income is Rm.2886.60. Deductions of Rm.894.60 (tax on salary), Rm 630 (tax on income), Rm.9.31 (official insurance), Rm.197.40 (rent), Rm.26 (National Savings), Rm.1.50 (Aeroclub subscription), Rm.19.55 (miscellaneous subsriptions) leave the worthy Marshall with Rm.1108.24, or barely 40% of his pay - just over £80 sterling."

The above extract from Allied Force HQ Intelligence Notes No 66 is published in the hope that it may afford some comfort to those officers recently in receipt of income tax assessments.

5. ALLOCATION OF VACANCIES TO LHQ S OF A (FD) :

Owing to frequent changes in the OOB and the switching of Fd Regts from one formation to another, confusion has been caused by the present system of allotting vacancies for courses at the School of Artillery (Fd).

It has therefore been decided that in future, vacancies will be allotted to formations for Fd, Med or Tk/A Regts under command on a scale depending on the number of students required.

Units under command will be those actually in the formation on receipt of the joining instructions; units transferred to another formation after receipt of joining instructions will carry any vacancies already allotted to it; units in transit at the time of issue of joining instructions will receive vacancies from the formation to which they move.

6. AMMUNITION ENTITLEMENT - 75MM PACK HOW :

It will be noted that the WE of a Mtn Bty does not include an ammunition entitlement. As ammunition entitlements are to be deleted from all WE's in the near future, it is not proposed to amend the WE for the Mtn Bty. Pending the publication of a memorandum on ammunition entitlement you are advised that the following scale is authorised for the 75mm pack how :-

First line - HE	- 135 r.p.g.	(45 rounds with the gun (90 rounds unit reserve.
Smoke-	15 r.p.g.	(5 rounds with the gun (10 rounds unit reserve.
Total-	150 r.p.g.	(50 rounds with the gun (100 rounds unit reserve.

Up to 30% of HE entitlement may be fuzed M54 - time and super quick.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

9. MODIFICATIONS TO PROCEDURE :

The following two suggestions have been submitted, through First Aust Army, by 2/6 Aust Fd Regt and are considered to be worthy of trial by other formations. Comments from units under command will reach this HQ by 25 Nov 44.

(i) Regimental Datum Points

In the absence of reliable maps the task of bringing down concentrations from two or more batteries at short notice is difficult and in some cases might involve ranging by each of the troops to be employed. This difficulty can be largely overcome if the CO, shortly after deployment, selects a number of Regtl Datum Pts and orders their registration by all batteries, or - if the dispersion of the troops and absence of survey are likely to make linking unsatisfactory, - by all troops.

These Datum Pts should be numbered as MIKE targets from the CO's block and subsequent concentrations can be ordered using a cardinal point reference from the most suitable Datum Point -

e.g. Target M 17
M3 S.W.400 (M3 being Regtl Datum Pt)
P & Q engage from 1200 to 1210 hrs
HE 11.7 Rate Normal.

(ii) The Quick Barrage

The method of producing a quick barrage as set out in AT Vol III Para 6 provides for circumstances under which the following conditions exist :-

(a) Reliable maps and survey
(b) Good track comms between the Bty CP and Tp Posns.

Under jungle conditions reliable maps are not always available and in many cases survey takes a considerable time to reach all gun posns. With regard to sub-para (b) above, it has been found that in the jungle it might often take upwards of half an hour to travel between a Troop and Bty CP even though the distance is relatively short.

In the circumstances therefore, it is necessary -

(a) that all batteries and, in some cases, all troops be registered on the opening line of the barrage or a suitable reference point.
(b) that the barrage be produced in the troop CP.
(c) that as considerable time might have to be spent in registration, a drill procedure designed to eliminate all avoidable waste of time be followed throughout all stages of the preparation.
(d) that as emphasis is placed upon speed, the drill must incorporate an efficient checking system.

With the foregoing requirements in view, the procedure described in Appendix 'A' to this Instr was evolved. It has been thoroughly practiced in training and was tried out with success by two batteries in the recent Regtl firing practice at FLINDERS RANGE. The time taken in both cases from the issue of the orders until the guns fired was 35/40 minutes.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

8. IMPRESSIONS OF THE FIGHTING IN NORMANDY :

This report has been received from a Corps HQ in France and is extracted from "Current Reports from Overseas No 48". The contents of this pamphlet are not official lessons and they do not necessarily represent the views either of the C-in-C, 21 Army Group or the War Office. They should not, therefore, be regarded as accepted doctrine.

"Artillery.

(a) In spite of the close country and the consequent lack of suitable OP's, the artillery has been of the utmost value. When a position is to be held, not one moment is lost in organizing the defensive fire round that position. Such fi can include not only the divisional artillery but every fo of artillery that may be available. We have sometimes had the advantage of being able to handle both the artillery of an American division on our flank and the naval support of battleships and cruisers, as well as all the artillery in our corps. All these guns have been directed at the appropriate moment on to defensive fire tasks round, or near to, our positions.

Comment :- Defensive fire tasks round the objective should be pre-arranged before the attack. They can the be known by sub-unit commanders, who can call f them if necessary. On arrival on the objective the tasks may have to be altered, but even so previous preparation will always save time.

The heavy attacks that were delivered against one armoured brigade on 13 Jun and 14 Jun were very largely broken up and destroyed by this organized artillery support. It was brought down often within 300 yds of our own troops, who were holding a position that was liable to be attacked from all sides.

Occasions sometimes occur, as they did on 14 Jun, when the artillery have to defend themselves with their own small arms fire. On another occasion a regiment fired their 25-p with air bursts at a range of 400 yds to repel an infantry attack that was approaching through the close bushy country. The fire was extremely effective and the attacking infantry were decimated.

(b) On the few occasions on which coloured smoke has so far bee used in NORMANDY, this method of marking targets has proved highly successful."

9. JAPANESE AIR AND ARTILLERY WEAKNESSES IN BURMA :
(Extracted from RA Notes No 19.)

The following report by CCRA----Ind Corps, also refers to the fighting prior to the capture of KOHIMA.

"One of the most notable features of these operations has been the almost complete immunity from attacks by JAP a/c and fire from JAP arty. This relative immunity has had in consequence a very bad effect on our movements.

Congestion of vehicles on roads, guns in action close together, exposure of people on the sky-line and in full view of the enemy have been continuous and are, of course, very bad training. Occasionally we get a salutory lesson and have, in fact, had three raids, each of six a/c, who did very little damage, and we have had the spasmodic harassing fire from 75-mm JAP guns who, as a rule, seldom fire more than three rounds gun-fire from one or at the most two guns on any one occasion. In one gun posn area some thirty-two field guns and two medium guns were in

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

9. (Cont'd)

action fully in view of the JAP positions, and with gun intervals only about 15 yards. Yet they got away with it."

DRA (India) commenting on this report says that a considerably greater scale of JAP artillery is likely to be met in other parts, where he has not got such a difficult L of C".

10. ARTILLERY IN KOHIMA AREA OF BURMA :

The following extract from RA Notes No 19 again draws attention to the splendid performance of the 5.5 in jungle operations.

"(a) Medium Artillery

"We have used it most successfully by installing single guns firing at a range of from 1000 to 1500 yds against known bunker localities.

Naturally such guns have to have a completely covered gun pit. This required expert engineer assistance; used over 7000 sand bags, and the roof weighed 50 tons, being 2 feet thick. 75mm shells and mortar bombs have no effect on such emplacements.

On KOHIMA NAGA village we had 3 guns so used and each gun fired 300 rounds in 6 hours with 231 fuze. The result was that every visable trench and suspected bunker was reduced to a mound. The hill will have to be re-surveyed as the height is no longer 3120 ft but probably 3110 ft plus temporarily 2 ft of dead Japs.

We are also experimenting with the firing of 100-lb shells into bunkers to within 20 or 30 yds of our infantry, not only to enable us to carry on firing to the last possible moment, but also to disrupt bunkers found by the attacking infantry during the progress of their attack. The 119 fuzes are disarmed by removing the primers and magazines. I believe that this will be most useful and of course will enable us to shoot these dud shells within 20 yds of our infantry, although it may be slightly hair-raising.

(b) Fire Plans

We have had, all the month, instances of the infantry being able to get to objectives with ease , but when they sought to consolidate they were shot up not only from unlocated and undestroyed bunkers on the reverse slope, but also from arty, mortar, and MGs from flanking positions.

Imagination and subtlety are essential requisites of any fire plan and there is too often a tendency to adopt stereotype fire plans. To deal with this it is essential that a careful appreciation be made prior to any attack, and as a result of such an appreciation, fire plans must be made.

One obvious one is to cover the whole country with a pall of smoke. This was successfully done in one attack and it did enable the infantry to consolidate. The screening lasted intermittently for 4 hours and they fired over 2300 rounds of smoke. Conditions were, however, ideal.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

10.(b) Cont'd

Another plan is to lay on a sort of flicking creeping barrage which can be put down at very short notice over areas where it is considered, as a result of the appreciation, that fire may come.

Another plan is for tanks and guns, at zero hour, slightly to increase their elevation so that shells and Brownings are fired 10 to 15 feet over the objective instead of into the ground. This needs education on the part of the infantry as it must be somewhat hair-raising, but X Ind Div did it very well the other day."

11. CLOSE SHOOTING BY A MOUNTAIN REGIMENT IN BURMA :

Para 10 shows how a medium regt solved the problem of very close shooting. Meticulous care in laying enabled a Mountain Bty to achieve results on similar targets using fuzed shell. The extract is taken from RA Notes No 19.

"Engagements during the attack usually consisted of fire by direct observation on a very small area from which LMG fire was being brought to bear on our own troops and causing a complete hold up.

Method of engagement was by a single gun which was restricted to gun fire at 30-sec intervals. Most targets were dangerously close to our own troops, but after the first effective engagement we were again and again asked to afford this type of supporting fire:

(a) To cover our further advance.
(b) To cover the collection of casualties.
(c) To cover a withdrawal.

Observation was good at a range of 1200 yds. Gun range was about 3000 yds. All tgts were about 30 to 50 ft higher than the position of our own troops and in one case not more than 35 yds forward of them. There were no casualties to our own troops from our shell fire.

I insisted on a minimum of 30 seconds interval at gun fire so as not to hurry the detachments and to allow the dust in the gun pit to settle down and to give a clear view of the OAP. Accuracy was obtained by keeping to this interval and ensuring the sequence of laying was adhered to. It was not found necessary to employ the field clinometer."

12. NOTES BY BRA 11 ARMY GROUP (BURMA) :
(Quoted from RA Notes No 19)

"(a) Counter Battery

The Jap usually builds an emplacement for his gun on the crest of a razor-topped hill. The emplacement has a very narrow arc and therefore gives very good cover against HE burst on the ground. When firing he runs his gun into the emplacement from a dug-out, fires a few rounds, and then immediately runs it back again. This leads to two conclusions :-

(i) CB must be immediate.
(ii) Time HE is much more effective than DA.

(b) Harassing Fire

It has been stated that the Jap when he has dug himself in is not affected by heavy concentrations of fire other than by 5.5" guns. This is NOT the case and his morale can be broken by VERY CONCENTRATED fire of 25-prs and 3.7" Hows provided that the bombardments are laid on with cunning.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

12.(b) Cont'd

(i) They must be very concentrated.
(ii) They must aim at being frequent rather than sustained.
(iii) They must aim at trying to catch the Jap in the open as often as possible.
(iv) They must aim at disturbing his rest at night."

13. METHOD OF CONTROL OF FIRE :

This extract from a report of a Canadian Formation in ITALY was published in RA Notes No 19.

"CRA----Cdn Inf Div was at the Div Tac HQ with line comn to his own HQ and back to Cdn AGRA and through AGRA to CCRA at HQ Cdn Corps. CRA called for fire of superimposed arty as he required from the Inf Div arty regts and Cdn AGRA only. Calls for fire from other arty, as required by Div Comd, were made by CRA to CCRA.

One "WILLIAM" tgt was successfully fired. TOT was 33 mins after the request for the fire was received from CRA. Nineteen fd regts, nine medium regts and two hy regts fired on this tgt. This time could have been greatly reduced if a TOT had not been required.

Pauses in the fire plan were changed, minor alterations and even fairly major alterations in the fire plan were carried out using this system of comms. Any major alterations in fire plan were confirmed in writing and sent out by LO.

Lessons Learned

(i) For an attack on such a scale as this operation 72 hrs preparation is only just sufficient. It would be difficult to do it in less but it might be carried out in 48 hrs.

(ii) CRA -- Cdn Inf Div was involved in making a fire plan for a minor attack the night the task tables for the major attack were being drawn up. This was very difficult and he should have appointed one of his COs as A/CRA. Two extra staff offrs and clerks were supplied to the CRA from Cdn Corps RCA.

(iii) In any battle the staff of all HQs RCA must have extra officers brought in and a duty offr appointed to answer phone calls and take minor matters off the hands of the staff. It is not good for one of the senior staff officers to have to work on a wireless set continuously or answer the telephone as he cannot get on with his proper job. It has been found in operations from day to day that it is necessary to augment all staffs RCA at all levels and to provide LOs. This is a continual drain on the regts and staffs should be increased and LOs permanently provided on the establishment of all HQs RCA.

(iv) Concentrations such as "WILLIAM" tgts can be called for and brought down as quickly as "UNCLE" tgts provided the control outlined above is used.

(v) The CCRA must be at Corps HQ if there is more than one attacking div involved.

(vi) Corps HQ must be close up behind the gun areas otherwise the comms will not be sure. One line to the AGRA, which is the hub of all comms, is too risky.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

(vii) The CRA of the attacking div msut be with his GOC. It would be safer from the comm standpoint if this was at Div HQ and not at Tac HQ.

(viii) Large fire plans can be altered using the above system of control. Major alterations are always risky and should be confirmed by LO.

(ix) It is most satisfactory if the CRA handles only his own div arty, and has a direct call on one AGRA during the battle. Any matters of control for arty beyond this or matters which affect all the arty should be handled by the CCRA.

(x) A running check must be kept on amn expenditures through reports from formations.

(xi) Arty/R should be controlled on a fairly wide front under one AGRA and continuous coverage should be provided.

(xii) Air OPs doing CB work under the AGRA should work on a narrower front. One Air OP worked with each AGRA on its own corps front.

(xiii) Div HQs should be far enough back to avoid being shelled and mortared too often, or conferences and preparation of fire plans are made much more difficult.

(xiv) It has been found that having a gun shop detachment as an advanced workshop depot and establishing this in the gun area or just in rear has proved of tremendous value. As a result of this no guns of 9th AGRA have been out of action for more than a brief period except one per regt which is always in workshop undergoing a routine check. After three weeks of intense operations the guns are now in better condition than they were at the start, as certain necessary modifications have been carried out.

(xv) In any action, where ground conditions, and situations required quick and flexible change of plan, it was found that the most suitable form of arty sp was then employed during the later stages of the action. This consisted in selecting targets off the map by study of aerial photos, a knowledge of the method used by the enemy in siting A tk guns and of posns likely to be used as OPs.
Without registration, these targets were numbered and recorded as Murders and Stonks by the CRA's HQ. The target numbers together with their map co-ordinates were then given to units on a basis of one list per tp leader. Not only did units use these numbered targets for arty sp, which when required came down/quickly, but also used them as an easy and quick method of reporting their posns. "

/very

14. INTRODUCTION OF YUKON PACKS FOR CARRIAGE OF AMMUNITION

Pack boards have been developed by both UK and US authorities as a convenient means of humping loads when vehicles cannot be used. To date Australian ideas have tended towards arrangements for carrying small loads over long distances. While this undoubtedly applies to infantry and possibly to recce and OP elements of artillery units, it does not apply to all aspects of artillery work, where a short haul, say of ammunition, from jeep head to guns is often called for. The Yukon pack being used in UK for such work has given remarkable figures for short hauls with weights far in excess of those normally visualized. It is realized that the humid conditions in NG will probably considerably reduce the weight that can be carried.

The report set out below is extracted from RA Notes No 19. Your comments on the suitability of this type of pack for artillery use is requested together with suggested scale of issue if it is considered they are of value.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

The introduction of man-pack equipment for the carriage of gun ammunition has been under consideration for some time and trials have been held to compare the degree of fatigue which results from the carriage of 25-pr and 5.5" gun ammunition with and without the aid of such equipment.

Several types of equipment have been tested and it has been found that the most suitable carrier for loads in excess of 50 lbs is a modified YUKON PACK. This carrier is fitted with a special platform and tump line and is designed to spread the weight over the back and shoulders and on the head of the wearer. It is of pressed steel construction and weighs in all 12 lbs, made up as follows:-

Frame	6 lbs
Canvas and lashing	3 "
Platform	3 "

It is considered that this weight is not excessive in view of the benefits derived, but it is hoped that in future production the weight may be reduced by the use of light alloys.

Some idea of the benefits derived from the use of this carrier may be gained from the following details of a trial held recently in the UNITED KINGDOM.

' 25-pr ammunition'

The trial followed a pre-fatiguing march with load.

No of men	Six	
Time.	2½ hours	
	With equipment	Without equipment
Ammunition carried	125 boxes of 4 x 25-pr shells	46 boxes of 4 x 25-pr shells

None of the men who were trained in the use of the equipment and participated in the trials complained of any unpleasant effects, even when carrying loads up to 250 lbs.

As a result of these trials it has been recommended that the YUKON PACK with tump line and special platform should be made a standard item of equipment of Field and Medium Regiments. The scale of provision of the equipment would depend, among other factors, upon-

(a) Room available in MT transport.
(b) Extent to which manhandling is required in any given theatre of war.
(c) Speed with which the equipment can be manufactured.

It is desired to know if the introduction of this equipment is considered to be an operational requirement and if so, the scale and basis of issue. "

Comments from regts to reach this HQ by 25 Nov.

15. DO's and DONT's FOR OP OFFICERS

These notes were issued by the CO of a Fd Regt in Italy to all his officers. They cover no new ground but some of the points cannot be over emphasised. The notes are copied from RA Notes No 19.

" More care is needed in the occupation and use of OPs.

Undue exposure and carelessness do not show bravery - they show that you are a bloody fool. You may get away with it for days and then find that just when observation is vital the Boche will neutralise your OP.

The following "do's" and dont's apply.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

1. If the approach is overlooked use any stratagem possible to ensure that the enemy does not know your eventual destination, e.g., alternate routes - going to a bogus OP first and crawling to your proper one later etc.

2. If in a house ensure that you are not silhouetted against either room back-ground or sky behind; particularly when entering it or moving about.

3. Make yourself as comfortable as possible and build up with sandbags or bricks etc., so that you can observe properly.

4. If your OP is in a house near the Boche and has a big "loophole" you cannot observe from close up. Build a partition behind which you can move from side to side of the room so that you can cover the whole of your zone without showing movement.

5. Use your periscope glasses.

6. Draw your panorama in the correct manner. Remember you will have to hand it over to your relief and he may not appreciate your personal artistic touches.

7. You must be able to identify on your map and air photo everything which you can see in your zone. A couple of hours is enough to do this, and your guns will help your map reading.

8. If in a house, dig a deep slit trench behind it, far enought from it to avoid falling debris, and if you become "target for the moment" you should withdraw to it temporarily.

9. Memorise the more important recorded targets on your front.

10. Send back an observation chart showing what you can see and what is dead ground from your OP. All observation has to be linked up and unless you comply with this instruction it cannot be done until one officer has visited all OPs.

11. Discourage movement and visitors. Your OPA should have a Bren or Tommy Gun. "

16. LESSONS FROM OPERATIONS BY THE CRA OF A BRITISH DIV IN INDIA

(Extracted from DRA (India) Licison Letter No. 8 (Sep 44))

" (a) Bunker Busting

(i) Indirect fire to destroy bunker positions has not always been successful.
The best results have been obtained with a 5.5-inch guns but these couldn't compete with the steep reverse slope positions. 6-pr A.Tk guns shooting over open sights were excellent and were used from ranges of 50 to 500/600 yds.

(ii) Although 25-prs and 3.7-in hows have not had much success in destroying bunkers with indirect fire, they have had a very definite effect in shaking and dazing the Jap when heavy concentrations have been put down. PW statements and reliable NAGA reports show how much Japs dislike these concentrations.

(b) Reverse slope positions

The Jap continually sites the main defences of any feature on the reverse slopes. When these features have razor edges, they are extremely hard to engage. The best method is to move a gun to a flank so that it can fire up the reverse slopes, but in this country it is not always possible to do this. Upper register firing may well be the answer. Some experiments have already been made and our tentative conclusions are:-

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

16. (b) Cont'd

(i) Although the zone is not big, meteor differences are very much accentuated, so that all shooting must be done by observation and the target engaged immediately after registration.

(ii) With the angle of descent of over 60° which can be obtained, we should be able to bombard any positions on reverse slopes or in deep nalas - but bombard, NOT destroy.

(c) OPs

(i) Regts have had up to 12 OPs deployed at one time and, over long periods, have averaged 9. In close country, where the zone of observation of any one OP is liable to be very small, this is inevitable. As far as officers are concerned, this number can be managed provided the regt is up to WE, but it is a considerable strain on our supply of signallers and OPAs, and many casualties would soon make this number impossible.

(ii) Time out has varied from 24 hrs to 28 days.

(iii) The size of the party depends on the period for which it is likely to be required as this determines the number of 48 set battle batteries to be carried. This is invariably the biggest problem of porterage. A longer life and better type of battle battery would help to conserve our manpower."

Notes : A. The CO of a field regt in BURMA recommends that on a two 48 set - 3 day basis, the minimum number is one officer, one OPA, two 48 set signallers, two spare signallers to carry the rations of 48 set operators and spare batteries and to take turns in carrying the sets.

B. In the new Indian WE for a field regt RA there is an increase of one officer, 3 OPAs and 9 sigs per Bty.

(iv) Tank FOOs for close fighting, are not 'on' in this country. The wretched FOO cannot observe closed down and is sniped immediately he opens up. He is far better employed as a static OP on a hilltop with a set on the tank frequency over which the squadron or troop Comd can call for fire. A carrier will usually get him safely from one point of observation to another.

(d) Gun Positions

Owing to the nature of the country, the choice of gun posns is very limited and most of our positions have been cramped - to put it mildly. The following factors should, however, be borne in mind :-

(i) Wide deployment - guns should always be deployed as widely as possible so that all sides of enemy held features can be engaged.

(ii) Crest clearance - which is a constant problem. A good many targets cannot be engaged at 4000 yds - out of range to Ch I 25-pr and Ch III 3.7-inch How and impossible to clear crest with Ch II 25-pr and Ch IV 3.7-in How.

(iii) Ease of access for ammunition replenishment - which, as a monsoon developed, became a very serious problem.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

16. (e) Fire Plans

(i) Wherever possible, all weapons - mortars, MMGs, tank 75-mm, 6-prs and even Bofors, have been brought into fire plans.

The direct fire weapons have been invaluable for maintaining the bombardment until our tps are right close up to their objective.

(ii) The brigading of mortars has made these fire plans far easier to control and more effective. The A. tk btys equipped with mortars should be of great value in this way.

(iii) The use of mortars helps to conserve our ammunition the shortage of which is being so constantly impressed upon us; but the Inf have to be constantly reminded to bring them into fire plans and to use them for DF and SOS tasks.

(iv) Type of Fire Plan

The following type of fire plan has proved to have been remarkably successful, on more than one occasion, against the inevitable Jap positions sited on ridges and reverse slopes. To start with, a concentration from all the Div Arty and Medium Regt firing 119 C.P ON, and brigaded mortars, is put down on the enemy positions, the mortars firing onto the reverse slopes, for a duration of anything up to 20 mins. This concentration has two objects first to clear the jungle and camouflaging from the Jap bunkers, secondly it allows time for the assaulting infantry to creep forward to a safe distance and see exactly how the concentration is coming down, from their assaulting positions.

This concentration is followed by a pause of approx 10 mins to allow the infantry to adjust their positions if necessary, have a good look at the objective and see the Jap bunkers that have by this time been disclosed. Lastly, it allows the Jap to have a breather so that he may put his head out above cover and possibly be caught by the next concentration which is to follow.

The concentration is then repeated, this time the mediums are lifted and 25-prs and 3.7-in hows fire 119 C.P ON in order that the infantry may work forward under the fire as close as possible.

Once again the duration is anything from 10 to 20 mins or even longer, dependent upon the circumstances, and is finally rounded off with one round salvo from all guns, controlled by HQRA, in order to indicate to the assaulting infantry that the concentration is concluded. Coloured smoke has been used for this purpose on one occasion with good effect.

At this time, the tanks with their 75-mm, 6-prs and Bofors open up at a safe distance ahead of the infantry. MMGs are also included and have been sited to fire just ahead of the tanks.

During the assault the infantry indicate their forward positions by putting up 77 grenade smoke every 30 to 50 yds, and as their positions are disclosed, the tanks, 6-prs, Bofors and MMGs lift further up the hill. This smoke indication is invaluable in thick country.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

16. (e) (iv) Contd.

The Div Arty meanwhile is lifted onto all features and known localities that could cover the position that is being attacked and, if they are numerous, they are dealt with by a "Flick" concentration (a concentration moving from one locality onto another and back again). These concentrations have been mixed with a high proportion of smoke for blinding as well as neutralisation.

The Medium Regt during this period has been employed on the bombardment of any known or suspected enemy guns and mortars. 77 grenade smoke is also valuable in hilly jungle country to indicate forming-up positions for the assault. If this position is not close enough to the position to be assaulted, the Bde Comd can order the bn to move forward 100 yards or so and again indicate position by smoke. When satisfied, the attacking bn is told that zero hour (the time when the arty programme starts) will be in, say, five minutes.

(f) Survey

(i) In close country, it is not worthwhile taking a line forward, as so many legs have to be used and it is far quicker and more accurate to take sun azimuth bearings at each new position. For this, each regt must have a nautical almanac.

(g) DF and HF

Normal DF and HF tasks have always been co-ordinated through HQRA and this has been working well. Bids are expected to reach us by 1400 hrs each day to give time for co-ordination with the "G" and "I" Staffs at Div and the re-allotment to Regts.

(h) Enemy Arty Methods

(i) The enemy arty has fortunately for us, been very unenterprising. The amount of damage they could have done to our concentrations of vehicles and men was considerable but their reactions were negligible. It may, of course, have been due to their shortage of ammunition, but this is not borne out by the amount that has recently been found abandoned.

(ii) The relatively few rounds they have fired (mostly against fwd troops in the open with virtually no CB or harassing fire) have been accurate with normally no ranging rounds, indicating that much of this fire has been over open sights. This is confirmed by gun positions captured. These have all had minute arcs of fire in order that the positions should escape detection, and have a complete and strong head cover.

/our (iii) The Japs frequently shell/own troops when we are firing, both to create the illusion of short rounds and to escape detection.

(iv) Another ruse to escape our CB activities is to fire from two different directions onto the same target at the same time. These efforts which they make to escape detection show a very healthy respect for our CB which has worked well.

(j) Oddments

(i) Having observed the Jap habit of coming out of bunkers to inspect the damage after an air strike, we had some very effective crashes by putting the Div Arty on to these areas about two or three minutes after the air strike had

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

16. (j) (i) contd.

finished. The actual order to fire has been on call to an OP which could observe for the right moment.

(ii) Ferreting. A MMG is got into position near a bunker which is then engaged by fd or med guns. When the bunker has been partially destroyed and the Japs break cover, the MMG opens fire.

(iii) One very successful venture was to send a small FOO's party with NAGA guides, but otherwise unaccompanied, into an area known to be full of Japs. Owing to the smallness of the party, they were able to move pretty freely and lie up at night without being detected. The FOO did two good shoots and some useful registration. "

17. ARTILLERY SIGNALS

From DRA (India) Liaison Letter No 8.

" 4 Ind Corps Trg Notes No 1 states that allotting a separate exchange for artillery communications at HQs divisions has proved itself in recent operations. This practice will invariably be followed. "

18. PROTECTION OF AIR OP's

RA Notes No 19 include the following note received from a Corps which was in the ANZIO beachhead area :

"So far no allied Air OPs have been shot down by "Flak" or small arms fire although many planes have been hit. This can be attributed partly to good fortune but mostly to the fact that as soon as the enemy dual purpose 88mm fires high angle it is spotted by the Air OP and is promptly "stonked". This has effectively discouraged them. Two planes had the misfortune to get in the way of our own shells.

Comment : While the above is true of ITALY, recent experience in NORMANDY indicates that the enemy is much more sensitive there, and the appearance of an Air OP is greeted with violent reaction from enemy guns and aircraft."

19. PRECIS OF A TEST OF THE SUBSTITUTION OF THE 4.2 MORTAR FOR THE 75MM HOW :

The following is a precis of the results carried out in America between regts equipped with 4.2" mortars and regts equipped with 75mm Hows (motorized and relying solely on movement by MT), in support roles both in attack and defence in rugged mountainous country. Results may be of interest in view of the possibility of the use of 4.2" mortars as alternative weapons for Tk/A and MG regts.

Conclusions are based on two main tests in the more successful of which the mortar was allowed a range of 6200 yds as opposed to 4400 in the other test. It was found that the mortar battery was able to advance over foot trails as much as four miles taking forward with them 144 rds of ammunition. It was decided that the mobility of the mortar equipment in rugged country was considerably better than that of the How Regt as it could be moved without aid of motor transport.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

19. Cont'd

The conclusions arrived at were as follows :-

(a) That the 4.2" mortar is suitable for use as a Field Arty weapon and that it is practicable to substitute the mortar on a one for one basis in a 75mm Pack How Regiment. (Some changes in WE would be necessary).

(b) The mortar is especially suitable for operations in difficult and mountainous country.

(c) The fragmentation and blast effect round for round is equal or superior to 105mm How shell fired on percussion.

(d) For firing WP smoke concentrations, this weapon is superior to the 155mm How.

(e) The Div Comd stated that the 4.2" mortar had definite value as a field weapon but its flexibility of fire should be improved so as to allow for the massing of concentrations on single targets.

20. ARTILLERY PROBLEMS ON THE BURMA FRONT:

The following is a precis of Extracts from Military Reports from the United Nations No 19.

Attack on Bunker Positions

Reduction of bunker positions has proved one of the most important artillery tasks. Artillery battle has been divided into three stages :-

(a) First Phase : Location of Enemy Positions.

(i) Thorough and detailed recce by infantry necessary.

(ii) Hills must be thoroughly stripped of scrub, bamboo and other jungle growth. 25-pr guns and 3.7 inch Hows are effective when employed on this task but 5.5 inch medium guns are undoubtedly better.

(iii) Supporting positions must be cleared equally with main positions and harassing fire and patrolling used to prevent repair of damage.

(b) Second Phase : Destruction of Enemy Positions.

(i) 5.5 inch gun is easily the best weapon for task and can clear area effectively. Used effectively against pin point targets from covered positions 1500 - 3000 yds from target using highest possible charge.

(ii) The 25-pr and 3.7 how both clear scrub and undergrowth effectively but do not destroy earthworks or seriously crater ground.

(iii) 75mm tank guns were also employed relatively effectively to destroy bunkers and provide fire support

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Cont'd

(c) Third Phase : Covering and Neutralising Fire :

(i) Covering and neutralising fire is put down on all objectives and known inter supporting enemy strongpoints during the advance. This is effective to enable infantry to reach objective but does not provide sufficient cover over last 25 to 50 yds.

(ii) Slow rate of advance means excessive expenditure of ammunition and neutralisation should only be called for when our troops come under fire. To avoid casualties infantry should negotiate last 50 yds crouching or crawling.

(iii) Last few yards may be covered effectively by anti-tank or 25-pr solid shot.

21. ARTILLERY LESSONS FROM BURMA :

(Precis of extracts from Military Reports from the United Nations No 20.)

The following lessons are drawn from operations west of the Chindwin River in extremely steep and jungle covered hills. Jungle is a mixture of bamboo and hardwood jungle trees. There are few motorable roads and for the most part roads have to be built or foot trails used.

Lessons

(i) Definite need for more medium artillery in the area. Medium weapons have generally been capable of employment in any place that light artillery has been used. Increased effect and range make them a necessity.

(ii) Need for increase in range for 5.5 inch gun to counterbattery the Jap 105mm gun (range 21000 yds). Use of 80 lb shell recommended.

(iii) Range of the 3.7 inch How in both mountain and jungle field regts must be increased to 9000 yds. There is some interest in the 75mm pack hows in this area. They have already been adopted for airborne use.

(iv) As a result of being outranged by the Japanese 105mm gun, the British have employed with success a system of air counterbattery. (Observer's comment : Counterbattery data of the active hostile batteries is kept by the air liaison officer, together with controlled mosaics and, when available, a large-scale map (2 inches to a mile) of the area. When a hostile battery which is out of range of our counterbattery fire becomes active, a request for air bombardment is passed through the Air Support Control communication channel, and, according to availability of aircraft, Hurricane bombers are sent out for immediate neutralisation. One direct hit on a gun has been claimed.)

(v) Infantry in forward areas must dig in sufficiently deep to allow close defence artillery fire to be brought down just forward of their positions i.e. as close as 25 yds away.

(vi) Artillery fire against Jap defence positions is relatively ineffective when impact fuzes are used. Delay fuze rounds must hit the position directly before any damage is done to occupants. The Japs are only seriously affected by arty fire when caught in the open with surprise fire.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

21. Cont'd

Lessons (Cont'd)

(vii) In the jungle artillery must be employed on the principle of mass surprise fire from as many guns as possible firing simultaneously on a single fortified point or on troops caught in the open.

22. CO-ORDINATION OF ARTILLERY AND AIR SUPPORT IN THE ARAKAN :

(Precis of Extracts from Military Reports from the United Nations No 20.)

(a) General

(i) The system of control described below has been used by a British Indian Army Corps and reports indicate that it is proving successful. The salient feature is that the control of fire support, whether by artillery or aircraft, is co-ordinated within the army by the CCRA or CRA, resulting in more centralised control of all fire support for infantry including close air support.

(ii) Control of requests for air support is ensured by submitting such requests to the senior artillery officer of the requesting unit who decides whether the fire support can be given best by artillery or aircraft. After screening such requests he forwards them to Army Air Support Control at Corps HQ.

(b) Procedure for Requesting Air Support

(i) Requests from units below brigades are forwarded through normal channels directly to Bde HQ. There they are turned over to the senior arty officer in the Bde who decides whether support required can be furnished by arty (incl div arty units not in direct support of that Bde) or by close air support.

(ii) If he decides close air support is required formal request is forwarded direct to Air Support Control at Corps HQ by VHF radio.

(iii) Radioed request is picked up at Div HQ where it is submitted to div arty HQ who may review request in light of further information and send instructions varying the request if necessary to Air Support Control.

(c) Army Air Support Control

(i) Advance detachment of the Tactical Air Force Group assesses requests at Army Air Support Control at Corps HQ.

(ii) After a mission is accepted messages are sent as follows-

(1) To the HQ originating the request stating the action taken and estimated time of aircraft over the target.

(2) To the ALO stating the number of aircraft and particulars of the mission to enable him to brief pilots on the spot.

(iii) Briefing is usually quick and simple because the territory is familiar to most of the pilots.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

22. Cont'd

(d) Advantages of the System

(i) Guns and aircraft are now used in their proper provinces as all fire support is controlled by one branch.

(ii) More complete and more recent information is generally held by div arty HQ than by any other office in div HQ. This is of value in screening requests and furnishing Army Air Support Control with latest information of troop locations and hostile installations.

(iii) Co-operation of air support and arty is facilitated e.g. in indication of targets by smoke shell and air bursts.

G.D. Browne

Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

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AUSTRALIAN WAR MEMORIAL AWM2019.366.69

APPENDIX 'A'

THE QUICK BARRAGE

The following system of producing a quick barrage is suggested.

1. One gun per Bty, or if the distance between Troops is large, one gun per troop will be registered on to Pt K or. Pt W (or X, Y or Z). The Troops to be registered will be named in the orders for the barrage which will also state whether the ranging point is to be Pt K or Pt W.

2. The orders for the barrage will follow a standard pro-forma, (see Appendix B) blanks of which will be available in Troop and Bty CPs and RHQ.

3. Pt K or Pt W whichever is to be the ranging point will be pointed out to the CPO on the ground.

4. On receipt of the order for the barrage the CPO will -

   (a) order a CP Sig to get both CPOs to the phone on a multiple call.
   (b) order the Bty CP Surveyors to plot the ranging point in accordance with the order and give him the line range and estimated A/S to it for both Troops.
   (c) order to the CPOs -
   (i) Quick Barrage at _____ hrs
   (ii) _____ OP will register _____ Troop (s)
   (iii) K lay on Z deg _____ A/S _____ Range
   (iv) B " " " " " " "
   (v) Prepare _____ RPG _____ (type)
   (d) divide Bty lane into Troop lanes.
   (e) pass the remainder of the barrage order including the position of the Troop lanes to the OPOs as comms permit.

5. The OPO will register each Bty using the Link Shooting procedure where both Troops of a Bty are to be registered.

6. The GPO will - (a) order the guns to prepare the required ammn.
   (b) pass the record of the target to the Bty CP immediately he receives it from the guns after the registration.
   (c) plot the ranging point, opening line and axis of advance on his Arty Board.
   (d) complete the barrage key line form and gun programmes using either a template or the quick barrage table.

   NOTE : If his troop has not registered the ranging point he will be given a rapporteured LRA by the CPO.

7. The CPO will - (a) plot the ranging point from the Troop record and if only one Troop was registered, rapporteur the information for the other Troop and pass it to the GPO concerned. If both Troops were registered he will check the record of the ranging point against gross error by rapporteuring.
   (b) plot the opening line and axis of advance on both Arty Boards.
   (c) complete a barrage key line form for each Troop.
   (d) check his barrage key line forms with the GPOs through the comms.

   NOTE : It is to be expected that shortly after deployment Regtl Datum pts, indicated by the CO, will be registered by all Troops and numbered as MIKE targets. Regtl conos, Pt K or Pt W may then be ordered using the "Cardinal Point" method or bearing and distance from one of these Datum points.

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APPENDIX 'C'

ORDERS FOR QUICK BARRAGE

1. Quick Barrage M.....at.....hrs

2. Lanes.....right.....left.....

superimposed.....yds

3. Axis .....degrees

4. OP to register.....

5. Troops to Register.....

6. Ranging Pt.....

7. Location of Ranging Pt.....

8. Position of Pt W, X,Y or Z.....degrees.....yds

from.....

9. No of lines.....at interval of.....yds

10. Opening Line.....degrees.....yds

11. Rates and Timings.....

.....

.....

.....

.....

.....

12. Ammunition.....

13. Synchronise with.....at.....hrs

.....

Army Form C 2136 (Small)
(Pads of 100) (Adapted Sept. 1943)

MESSAGE FORM

Register No. W.D

Call	Srl. No.	Priority	Transmission Instructions

ABOVE THIS LINE FOR SIGNALS USE ONLY

FROM (A) Originator: RAA 3 aust div

Date—Time of Origin: 122140L

Office Date Stamp

For Action

TO 2 aust fd regt 4 aust fd regt 2 aust mtn bty 3 aust svy bty

(w) For Information (INFO.)

Message Instructions — GR

ORIGINATOR'S No.

RAO 174 restricted (.) unit rep will attend int conf at this HQ 0900 L each friday commencing friday 17 nov (.) RAA weekly Tech Arty Int Summary will be issued as at 0359 L each friday commencing 17 nov (.) infm from these and other sources will be promulgated in detail to all ranks under unit arrangements as soon as possible after receipt and NOT later than 2200L sunday following all informed

This message may be sent AS WRITTEN by any means { except ..... } Wireless	If liable to be intercepted or fall into enemy hands, this message must be sent IN CIPHER	Originator's Instructions Degree of Priority	Time THI or TOR	System	Op
Signed	Signed		Time Cleared		

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

appx 4 W.D.

RESTRICTED

HQ RAA 3 Aust Div (AIF)

12 Nov 44

RAA 3 AUST DIV ADM INSTR NO 3

Ref Map TOROKINA 1 in to 1 mile

1. SWIMMING

(a) Units will send parties to the authorised swimming beach in the forenoon only, on the following days :-

HQ RAA	2 Aust Fd Regt	4 Aust Fd Regt	2 Aust Mtn Bty
Monday	Thursday	Monday	Tuesday
Thursday	Friday	Tuesday	Friday
	Saturday	Wednesday	

(b) Approximately one third of each Regt will swim on each of the days allotted. Units will provide own tpt and move in convoy under comd of an offr.

(c) 2 Aust Fd Regt and 4 Aust Fd Regt will tpt HQ RAA personnel on Thursday and Monday respectively.

(d) Organised swimming parades will be held and non swimmers will as far as possible be taught to swim by other members of the unit who are competent instructors.

(e) Costumes will be worn.

2. SPORT

Units will NOT enter into sporting competitions with US units until such time as a programme has been co-ordinated by 3 Aust Div or special permission granted. An endeavour is being made in the meantime to obtain the use of a sports ground for practice.

3. FRATERNISATION

Fraternisation with US units is to be encouraged but no barter or black market trading will take place. Exchange of goods on an equitable basis is, however, permitted.

4. DISCIPLINE

The same respect will be shown to US senior offrs, whose vehs are distinguished by one or more silver stars on a red background, as is shown to senior Aust offrs.

5. BATHING AND WASHING CLOTHES

(a) Bathing and washing parades will take place before 0900 hrs and after 1530 hrs daily.

(b) Allotment :-

TOROKINA RIVER	CREEK 647950
2 Aust Fd Regt and one Bty 4 Aust Fd Regt	Remainder 4 Aust Fd Regt and HQ RAA

(c) Trousers will be worn to and from bathing area.

6. BOUNDS

Excl those on duty, no personnel will proceed EAST of TOROKINA RIVER or SCUM of br at 647950.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

7. ANTI MALARIAL PRECAUTIONS

(a) Anti malarial precautions will be strictly adhered to in this area and trg in measures to combat tropical diseases maintained.

(b) This HQ will be notified by 1930 hrs daily that malarial precautions have been taken.

8. HYGIENE

Personal hygiene of tps will be carefully supervised. Foot inspections will be carried out twice weekly.

W L Ross Capt.
(W.L.ROSS) SCRA 3 Aust Div (AIF)

DISTRIBUTION

2 Aust Fd Regt
4 Aust Fd Regt
2 Aust Mtn Bty
3 Aust Svy Bty (for infm)
3 Aust Div
CRA
BMRA
SCRA
War Diary
File

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Army Form C2136 (Small)
(Pads of 100) (Adapted Sept. 1943)

MESSAGE FORM

Register No. W.D.

Call	Ser. No.	Priority	Transmission Instructions

ABOVE THIS LINE FOR SIGNALS USE ONLY

FROM (A) Originator: RAA 3 aust div

Date—Time of Origin: 131400 L

Office Date Stamp

TO For Action: 2 aust fd regt 4 aust fd regt 2 aust mtn bty 3 aust div CRA

(w) For Information (INFO.)

Message Instructions — GR

ORIGINATOR'S No.

RAO 175 restricted (.) ref RAA 3 aust div trg instr 11 (.) until formal approval trg area given para 3 will NOT apply and trg will continue in unit areas

This message may be sent AS WRITTEN by any means except Maj. Wireless

Signed

If liable to be intercepted or fall into enemy hands, this message must be sent IN CIPHER

Signed

Originator's Instructions Degree of Priority: DRLS

Time	System	Op
THI or TOR		
Time Cleared		

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

RESTRICTED

12 Nov 44.

RAA 3 AUST DIV TRG INSTR 11.

Ref Map : Hasty Terrain Map 1 : 20000
TOROKINA RIVER Sheet No 5

1. OBJECT :

To outline training policy for units RAA 3 Aust Div during period of occupation of present temporary camp sites.

2. DATE OF COMMENCEMENT :

2 Aust Fd Regt) After settling in - CO to advise this HQ
2 Aust Mtn Bty) of date.

4 Aust Fd Regt - 13 Nov 44.

3. JUNGLE TRAINING :

(a) Area

(i) NORTH of HILL 230 RD to incl high ground in squares 134, 135, and 220 (see trace P attached).

(ii) Allocated to 4 Aust Fd Regt until 2 Aust Fd Regt settled in - then as advised.

(b) Aspects of Training to be covered

(i) Jungle patrols.

(ii) Perimeter defence - Tp and BTY positions (without guns)

(iii) Complete erection of strong posts, pill boxes etc incl wire.

(iv) Hardening exercises.

(v) Living, sleeping, feeding and anti-disease training in jungle.

NOTE : Technical and practical instr is being sought through RAE 3 Aust Div for erection of wire. Further advice later.

4. TECHNICAL TRAINING :

Refresher training in technical subjects will cover the following :-

(a) Miniature range incl air shoot - for officers and OPAs.

(b) Jungle survey (in area see 3 (a)).

(c) CP organisation, procedure and drill. Accuracy rather than speed will be aimed at.

(d) Sig communications incl :-

(i) experimenting with R/T and W/T.

(ii) line laying and maintenance.

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4.(d) Cont'd

(iii) 108 Mk III set.

(iv) FOO exercises.

5. RANGE SHOOTING :

On or after 24 Nov 44 range shooting with 25-pr equipments will be carried out on the AMERICAL RANGE AREA (Trace later). Further advice later.

6. SAT

SA firing practice will be carried out when arrangements are completed for use of the rifle range. Speed in use of LMGs and accuracy in use of rifle will be concentrated on.

7. ANTI-DISEASE TRAINING :

To be continued as before with the addition of training in prevention of jungle rot and diarrhoea.

8. SWIMMING :

Every opportunity will be taken to teach non swimmers and this training will be combined with recreational swimming as laid down in RAA 3 Aust Div Adm Instr No 3 of 12 Nov 44.

9. CONCLUSION :

With the possibility of an operational role in the near future unit comds will make full use of this interim period and regard it as one of intensive training.

G.D.Browne

Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION :

2 Aust Fd Regt
4 Aust Fd Regt
2 Aust Mtn Bty
3 Aust Div
CRA
File
War Diary (2)

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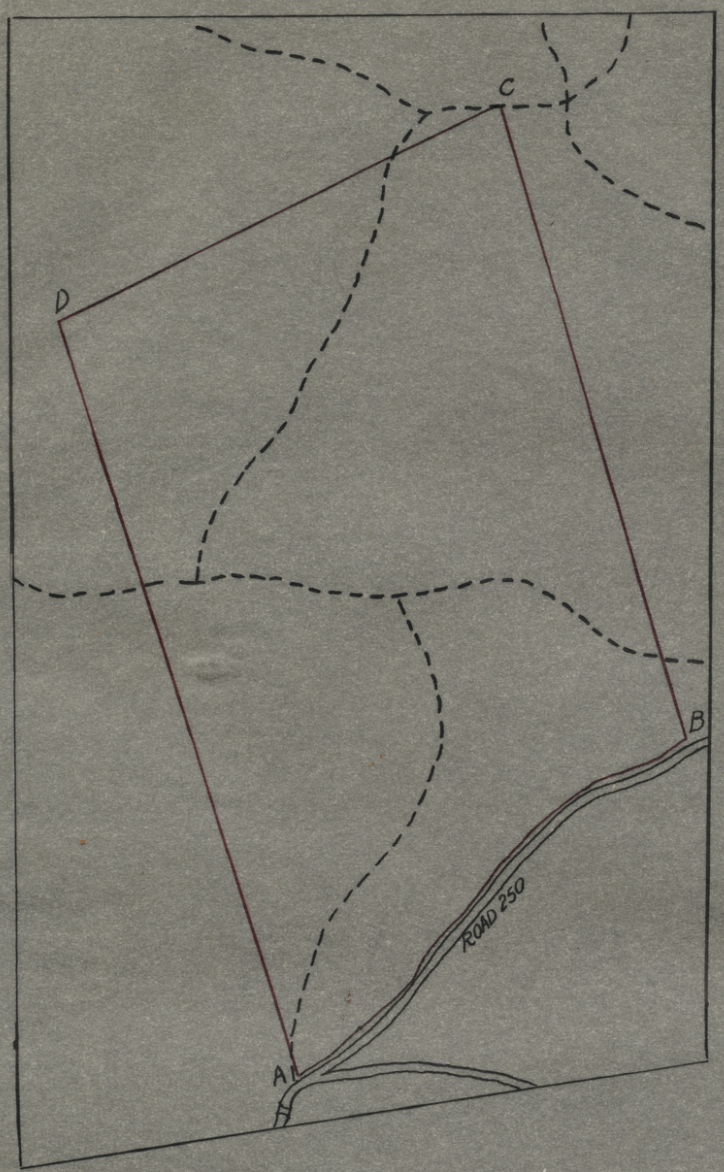

218

137

DISMOUNTED JUNGLE TRG AREA

HQ RAA 3 Aust Div
G Wickham
12 Nov 44.

Ref Map : TOROKINA RIVER 1:20,000.

134.

216

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form C2136 (Small)
(Pads of 100) (Adapted Sept. 1943)

MESSAGE FORM

Register No. W.D

Call	Ser. No.	Priority	Transmission Instructions

ABOVE THIS LINE FOR SIGNALS USE ONLY

FROM (A) Originator: RAA 3 aust div

Date—Time of Origin: B 2200 L

Office Date Stamp

For Action

TO: 2 aust fd regt 4 aust fd regt

(w) For Information (INFO.)

Message Instructions

GR

ORIGINATOR'S No. RAO 177 restricted our RAO 175 of 131400 L (.)approval granted(.) area from HILL 250 RD NW 300 yds to a line running parallel with rd will NOT be used except in transit (.) american tps in this area(.) 4 aust fd regt will commence trg 14 nov and will make full use of area each day with at least 3 parties working concurrently (.) allocation area 2 aust fd regt later

This message may be sent AS WRITTEN by any means except incl Maj. Wireless

Signed

If liable to be intercepted or fall into enemy hands, this message must be sent IN CIPHER

Signed

Originator's Instructions Degree of Priority

Time	System	Op
THI or TOR		
Time Cleared		

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

War Diary

BEK/GW

appx 7

SECRET

Subject: RECCE REPORT RELATIVE TO RELIEF (IF REQUIRED) OF 37 US DIV ARTY IN DEFENCE OF TOROKINA PERIMETER BY RAA 3 AUST DIV

HQ RAA 3 Aust Div (AIF)
S22/15
13 Nov 44

3 Aust Div

1. The above is attached.

2. Should it be considered likely that such relief and defence might be required, it is recommended that permission be granted for Aust Survey to be commenced forthwith.

B E Klein Brig
(B.E. KLEIN) CRA 3 Aust Div (AIF)

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

SECRET

RECCE REPORT RELATIVE TO RELIEF OF 37 US DIV ARTY IN DEFENCE OF TOROKINA PERIMETER BY RAA 3 AUST DIV

Ref Map: XIV Corps Hasty Terrain Map
Sheets 2,3,5,6 - 1:20000

1. RELIEF:

If required to relieve 37 US Div Arty in defence of TOROKINA Perimeter by Aust Arty of RAA 3 Aust Div, such relief can be easily effected.

2. TPS:

(a) 37 US Div Arty

HQ 37 US Div Arty
6 FA Bn - 12 x 105mm HOW
135 FA Bn - 12 x 105mm HOW
136 Med Bn - 12 x 155mm HOW
140 FA Bn - 12 x 105mm HOW

(b) RAA 3 Aust Div

HQ RAA 3 Aust Div
2 Aust Fd Regt - 24 x 25-prs
4 Aust Fd Regt - 24 x 25-prs
2 Aust Mtn Bty - 4 x 75mm HOW

3. GUN AREAS:

All gun areas have been cleared of jungle growth and provide fair to good gun platforms. Gun emplacements no longer exist and guns have NOT been fired from def posns since Apr 44. Dispositions are shown on trace attached.

6 Bn : Outside 37 Div Area.
Cramped and difficult to approach.
Suitable only for high angle fire.

Deduction: NOT suitable.

135 Bn : Very restricted and suitable only for high angle fire. Area approx 800 yds NORTH of Bn area and shown on trace att as BANANA PLANTATION is flat and open and is about 1000 yds by 500 yds.
Except for existing tracks in the area which are generally fair there is little clearing done.
Some work necessary on main track from CORPS HD to PLANTATION.

Deduction: Suitable area for Fd Regt exists in BANANA PLANTATION but present US gun site not suitable.

136 Bn : Restricted area - good standing and field of fire.

Deduction: Suitable for one bty Fd Regt or Mtn Bty.

140 Bn : Extensive area with good gun platforms and cleared field of fire.

Deduction: Suitable for Fd Regt.

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4. COMMS:

Good comms exist between present Bty FDCs through Bn CPs and Inf Regt CPs to fwd coy posns. Comms fwd of coy HQs do NOT now exist. In addition all Bn CPs are connected by line to 37 Div Arty CP and lateral lines exist between Bns.
Route plans shown on trace att.

Deduction: Present comms could conveniently be adapted to our use if our inf dispositions are approx the present US dispositions. FOOs working fwd of Inf Coy HQ would have to lay own lines as required.

5. OPs:

All OPs whether tree OPs or ground fox holes give very limited observation. Two ground OPs only exist on the left sector while on the 145 Inf Regt sector 8 tree OPs have been established and a number of fox holes dug.
In nearly all cases targets have been shot in by sound or by air OP.
It was stated that on no occasion was ground observation good enough to carry out ordinary observed shooting.

Deduction: Air OPs are a necessity.
FOOs working with fwd coys can utilise existing OP facilities and register close targets.

6. SURVEY:

The existing svy of gun posns and tgts is based on 1 MAC 2nd Edition Maps which are obsolete and inaccurate. XIV US Corps have produced svy data within the perimeter. This svy forms the basis of the present XIV Corps Hasty Terrain series of maps and is reported to be accurate within the perimeter and in the area in which def tgts would occur. Further liaison with 37 US Div Arty and XIV US Corps is taking place.

Deduction: XIV Corps svy data should be used and new svy of area carried out by this HQ.
The present svy of US arty units is NOT satisfactory and is of little use.

7. METEOR:

No meteor was used by 37 Div during the def of this area in Feb-Mar 44.

Deduction: All tgt records existing within 37 Div Arty are of no practical value for shooting.

8. TGTS:

Extensive records exist of tgts engaged by 37 Div Arty.

Deduction: Areas covered by fire should be obtained as a guide to possible areas for DF tasks.

9. ROAD COMMS:

Good road comms exist throughout the area.

Deduction: No further road making necessary.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

10. COURSES OPEN:

(a) For units RAA 3 Aust Div to occupy posns originally used by units 37 Div Arty for def of the perimeter, i.e. one Fd Regt in the 140 Bn area, one Fd Regt in the 135 Bn area and the Mtn Bty in the 136 Bn gun area.

This would involve a considerable amount of clearing in the 135 Bn area and is therefore NOT considered advisable.

(b) To disregard the actual gun posns of the 37 Div Arty and to select new posns for guns of one Fd Regt in the 140 Bn area and for the other Fd Regt in the BANANA PLANTATION NORTH of 135 Bn area; the Mtn Bty to occupy posns in the 136 Bn gun area.
Use existing comms where possible.

This course would minimise clearing and give all guns the necessary field of fire to allow quick div concentrations to be brought down on selected tgts on the div front.

11. RECOMMENDATIONS AS RESULT OF RECCE:

It is recommended that, if required, course (b) be adopted. This could be effected as under:-

(a) Occupy areas of 37 Div Arty in the following manner -

One Fd Regt in 135 Bn area to select gun posns in that area.
One Fd Regt in 140 Bn area to select gun posns in BANANA PLANTATION.
Mtn Bty in portion 136 Bn gun area to select gun posns in that area.

(b) Use existing comms taking lines from present 37 Div Arty HQ to HQ RAA 3 Aust Div.

(c) Use XIV Corps svy data and originate 3 Aust Div grid to tie up Div Arty units.

(d) Carry svy into the tgt area and register possible DF tasks by svy. If permitted by higher formation shoot in tasks and obtain corrected co-ords by shooting from ground and Air OPs.

(e) Carry out recces of possible ground and tree OPs on the perimeter using existing OPs where possible.

BEK

BEK/GW

War Diary

SECRET

HQ RAA 3 Aust Div (AIF)
S22/14
14 Nov 44

RECCE REPORT FROM POINT OF VIEW OF AUST ARTILLERY RELIEF OF AMERICAN ARTILLERY IN JABA R AREA, AND ASPECTS RELATIVE TO SUBSEQUENT EMPLOYMENT OF AUST ARTILLERY IN SUPPORT OF POSSIBLE OPERATIONS SOUTH OF JABA R

3 Aust Div

1. The above Recce Report is attached.

2. Recommendations:

The following recommendations are made relative to immediate preparatory arrangements -

(a) A Fd Arty Svy party commence survey from perimeter to JABA R Area, so that any relieving Aust Arty can be tied in by Svy without delay.

(b) Wire, sufficient for each Bty Fd Arty to erect 600x of Double Apron perimeter wire, be available.

(c) Fd Arty plus Engineer reconnaissances and experiments be permitted forthwith vide 3 (c) of attached.

(d) The Air OP Flight be placed under operational command of CRA, and that RAAF Auster Pilots familiarise themselves forthwith, with JABA R Area.

(e) That one Fd Arty officer per Regt be attached to Air OP Flight for liaison and general familiarisation duties, ground & map.

B E Klein Brig

(B.E. ~~KLEIN~~) ~~CRA~~ 3 Aust Div (AIF)

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

SECRET

Subject: RECCE REPORT - JABA RIVER AREA

Ref Map: MOTUPENA PT - 1-in to 1m.

RECCE REPORT FROM POINT OF VIEW OF AUST ARTY RELIEF OF AMERICAN ARTY IN JABA R AREA AND ASPECTS RELATIVE TO SUBSEQUENT EMPLOYMENT OF AUST ARTY IN SP OF POSSIBLE OPS SOUTH OF JABA R

13 Nov 1944

1. TACTICAL:

(a) Relief : The relief of American Arty at present in JABA R area can be effected by a bty of 25-pr Mk II or 25-pr Short.

(b) Gun Areas:

(i) Suitable gun areas exist at 782780 (present location of American Cannon Coy). This area would have to be cleared further to accomodate a bty. This clearing could be effected fairly easily.

(ii) 783755 - This area could be easily cleared to provide a suitable tp posn and would be suitable for leap-frogging tps fwd in subsequent ops SOUTH of the River.

(iii) 776745 - This area which is present location of fwd pl would be a suitable tp posn for future ops SOUTH of the River.

(c) Local Defence : To provide adequate perimeter defence of gun areas, it would be necessary to provide a double apron barricade.

At area b(i) there is a barricade already erected, which would have to be enlarged to cover a bty area.

At area b(ii) there is no existing wire.

(d) Staging Area : A suitable staging area for btys moving in to relieve btys in action exists at 720857.

(e) Dump Area: A suitable area for a dump of amn and supplies exists at 779788.

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2. TECHNICAL:

(a) Crest Clearance : From posn b(i) present crest clearance would enable 25-pr Mk II to shoot down to 1800x and 25-pr Short to 1400x. The range to JABA R is approx 3700x from this posn.
Towards S.E. clearances are more difficult, and in the event of targets in this direction being possible, the initial employment of a 25-pr Short Bty is recommended. Should subsequent operations proceed beyond JABA R a standard 25-pr Mk II Bty could be leap-frogged through the above Short Bty with effect.

(b) Survey : No survey, as applicable to Australian Artillery Survey tie-in, is available.

(c) Observation : No suitable OP is available NORTH of JABA R. An OP on spit of sand SOUTH of JABA R mouth would give restricted view SOUTH along the coast. Effective shoots inland could only be carried out by using Air OP or FOO with fwd infantry unit.

(d) Ammunition : Average US Expenditure - 50 rds per day.
US holdings - 1 unit of fire (300 rds per gun)

Recommended Aust supply-

(a) Initial supply - 1st line Amn = 140 rds per gun incl 10% Smoke.
(b) Subsequent supply to maintain Amn to 1st line entitlement.

3. TOPOGRAPHICAL:

(a) Roads and Tracks : The track SOUTH along the coast from TOROKINA R to JABA R is a rough sandy surface which is suitable for the hauling of guns.

(b) Bridges : At TOROKINA, MAVAVIA, and SAUA Rivers, bridges are adequate for passage of guns and amn supply.

(c) Ferries : Ferries operating at REINI R and TEKESSI R can carry 1½ tons with safety but have carried 3 tons. These ferries are 36' long. It is suggested that a party from Fd Regt with Aust eqpt carry out experiments at both ferries with a view to ascertaining capacity of ferries and the most convenient methods of loading and unloading.
A ferry similar to those over REINI and TEKESSI Rivers would have to be constructed for passage of guns over the JABA R for subsequent ops.

(d) Ground : Except for cleared areas already mentioned the ground inland of the track is either marshy or covered with heavy jungle undergrowth

Bek

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

appx 9

SECRET War Diary

RECCE REPORT RELATIVE TO ADOPTING EXISTING US SURVEY BOUGAINVILLE, AND ITS USE FOR AUSTRALIAN ARTILLERY IN FUTURE OPERATIONS

The following is a report on Survey in the vicinity of the TOROKINA PERIMETER. These observations are based on information obtained from 37 US Div, XIV US Corps and 2 Fd Svy Coy.

1. Existing Survey

(a) Existing US survey is considered to be of very little use for Australian Artillery as the US grid is Mercator Projection based on the Solomon Island Grid, which has only an arbitrary point of origin.

(b) US survey work in the area appears to be rather rough, and it would not be wise to accept azimuth and co-ordinates of any of their stations as a basis for any future survey.

2. Future Survey

(a) 2 Fd Svy Coy have a fixed point by Astrofix at the mouth of the TOROKINA R, and propose to traverse from there up to, and along the NUMA NUMA trail, eventually reaching the East Coast of the Island.
They state that within about a fortnight, they will have pegs a half mile apart, up to the present forward area. If operations were carried out in this area, this information will be of great assistance.

(b) Any survey carried out by the Regt Survey Party should be based on the station at the TOROKINA R mouth.

B E Klein

15 Nov 44

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Appx 1A War Diary 1304/44

SECRET

REPORT ON ARTY RECCE OF NUMA NUMA TRAIL

Ref Map 1" to 1 mile TOROKINA SHEET 15 Nov 44

1. PRESENT DISPOSITIONS

As shown on trace "A".

2. TERRAIN

The vehicle track follows the bed of LARUMA river to its junction with DOYABIE thence to approx 648113 from whence a foot pad leads to fwd Coy NE of PIATERAPAIA 663231. A branch foot pad leads from 632077 to NIP HILL block at 632114 thence to SISIVE.

The river valley is very narrow and there are many crossings passable only to 3 tonners - foot traffic being impracticable without installing "flying-foxes" or bridges. The sides of the valley are steep and heavily timbered.

The veh road will require constant maintenance and tracked tractors will be required in rescue of stranded vehs and gun hauling.

3. METEOROLOGICAL

Heavy rains are experienced and it is expected that these will become more frequent over the months of Nov & Dec. After these heavy rains all crossings are impracticable.

4. O.Ps

A general view of the terrain is available from NIP HILL and an FOO will be required at PIATERAPAIA. Observation in SISIVE area is possible only to FOO or Arty/R. The rugged nature of the country and the extreme length of wire will produce such difficulties that it is recommended that Arty/R be used.

5. GUN POSITIONS

Present arty consists of 1 bty 155 mm hows at 619055. Possible positions for 25 pr and 75 mm pack how exist at (a) 629066 (b) 648105 and (c) 648112. From (a) the LESIAPIA area can be engaged at 10,000^{X}. From (b) and (c) both LESIAPIA and SISIVE areas can be engaged at ranges of 5000^{X} and 11,500^{X} from (b) and 4300^{X} and 11,000^{X} from (c). Angle of sight of up to 5° will be experienced.

In regard to SISIVE the position shown on 1" map appears to be in error and ranges given are based on 1:20,000 map and Q.E. obtained from firing data of 155 mm hows adjusted approx for angle of sight, non rigidity and meteor.

In addition 75 mm pack hows could be used on both areas from the NIP HILL feature at ranges of 5000 and 9000. In this case approx 50 native porters would be required for L of C.

In support of further advance 75 mm hows could similarly be maintained on PIATERAPAIA ridge, and from positions (b) and (c) 25 prs can reach beyond the main divide of the island. For this reason it is recommended that the extra range of 25 prs Mark II be employed.

Positions for a "sniping" gun also exist on PIATERAPAIA Ridge.

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6. OCCUPATION

It is estimated that position (a) could be occupied in approx 4 days and positions (b) and (c) in approx 4 to 7 days. In each of (b) and (c) separate gun pits will be required for each of LESIAPIA and SISIVE areas.

75 mm How position on NIP HILL would require 10 days with the use of 50 porters incl 1st line ammn.

Tracked tractors are essential for the above timings. If 3 tonners only are available guns should be carried portee. If towed by tractors guns should be stripped of shield and sight bracket.

Engineer assistance (bulldozing "tracks in" and felling trees with explosives) is also necessary.

7. SURVEY

No survey exists at present. It is estimated that survey could be taken to position (c) from the first LAMUMA crossing in 10 days by a combination of traverse and minor triangulation. Survey to the OP area should be the subject of a separate recce, but it is suggested that a triangle NIP HILL - PIATERAPAIA - HILL 900 in Sq 6199 might be possible (the distance NIP HILL - PIATERAPAIA being obtained by a sub-tense).

The present 1" map is most unsatisfactory for arty purposes.

8. COMMUNICATIONS

Existing American communications are shown on trace B. It is understood that this cable will be left by US arty.

W/T will suffice for rear-link but if line is laid it should be a Div Sig responsibility.

9. INCREMENT CHARGES

The steep nature of the country makes the provision of increment charge most desirable.

10. COMMAND

No additional staff are considered necessary.

Lt Col RAA

Major RAA

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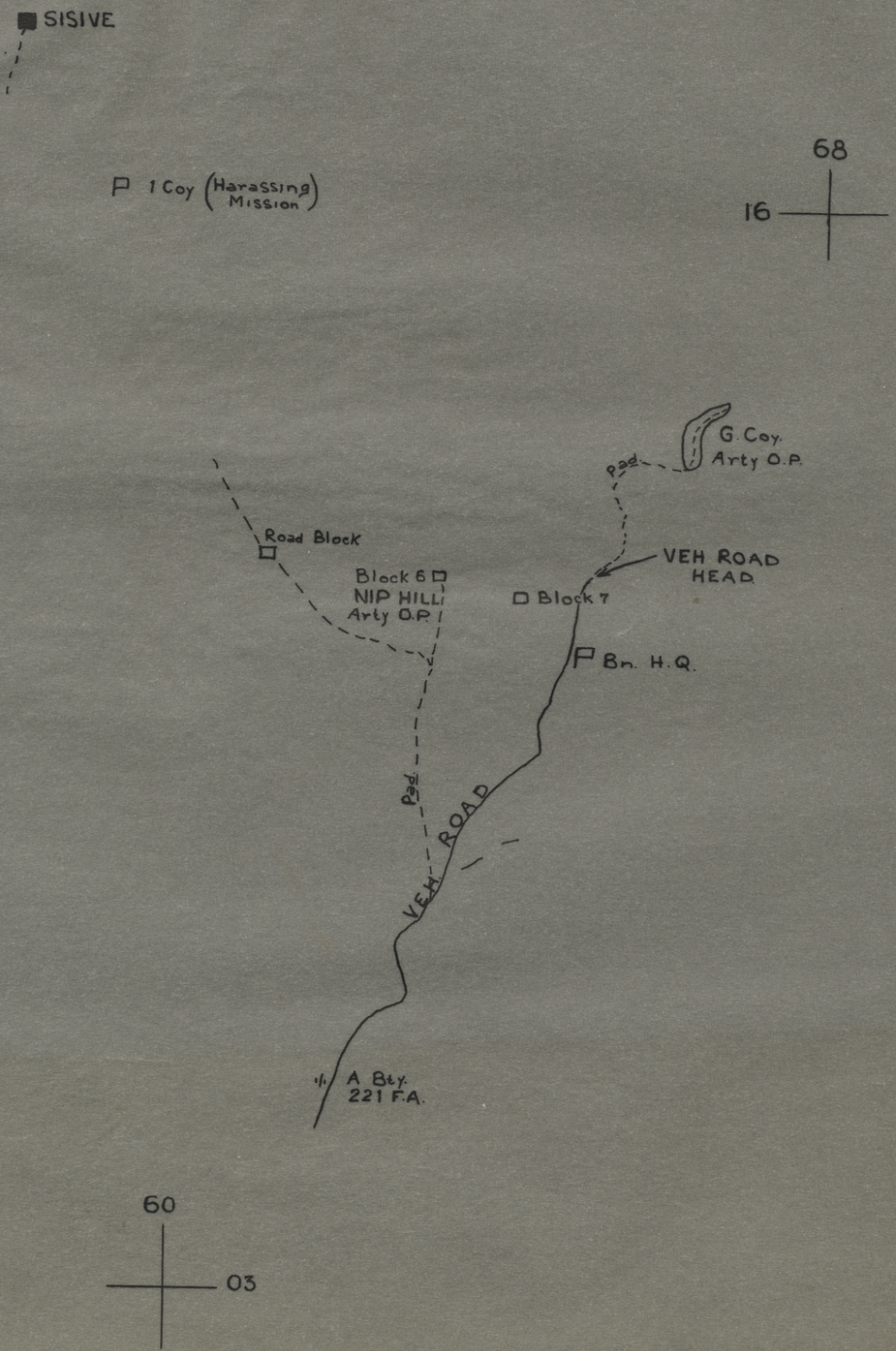
SECRET.

TRACE "A"

ATT. Arty. Recce Report of 15 Nov 44.

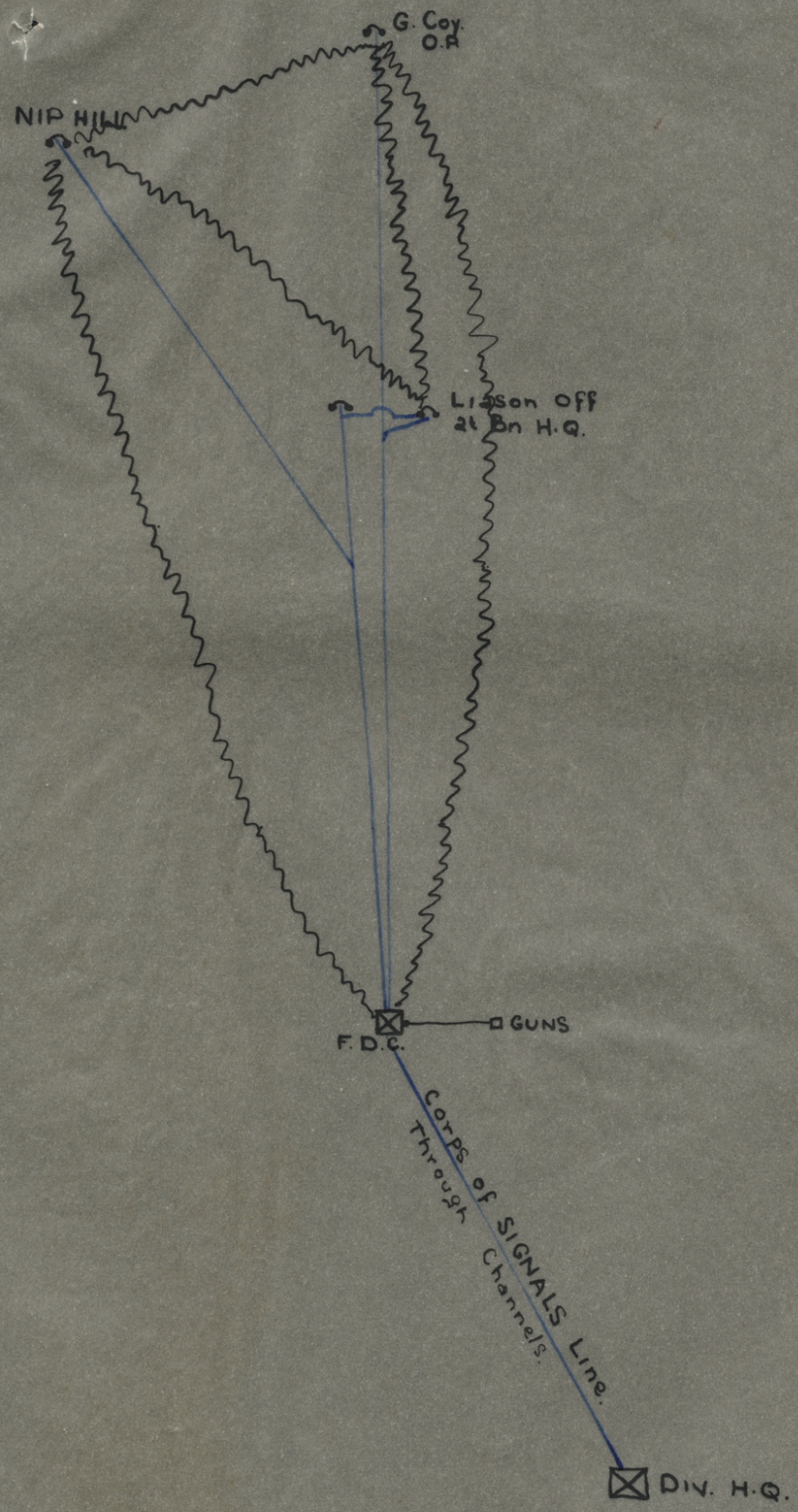
Ref. Map TOROKINA 1 INCH to 1 MILE



SECRET.

TRACE "B"

ATK Arty. Recce Report of 15 Nov 44.



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Copy No ...10...

15 Nov 44

RAA 3 AUST DIV OP INSTR 2

(NO CHANGE FROM VERBAL ORDERS)

1. INFM : No change.

2. It may be anticipated that 2 Aust Fd Regt will relieve US Arty at present in posn in the JABA R area with one Bty of 25-pr Mk II.

3. Date and time of relief - later.

4. Svy :
   (a) Regt Svy party will commence svy forthwith.
   (b) PT of origin and azimuth - Astrofix of 2 Aust Svy Coy RAE.
   (c) Priority :-
       Gun posn
       OPs
       Tgt area
   (d) RSO will liaise RSO 4 Aust Fd Regt re svy data 2 Aust Svy Coy RAE.

5. No mov SOUTH of JABA R without ref this HQ.

6. Details regarding :-
   Working party)
   Recce of gun and OP areas) later
   Adm incl Amn)

ACK
Issued by DRLS
Signed at 1300...L

G.D. Browne
Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION	COPY NO
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War Diary	9 - 10

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15 Nov 44

RAA 3 AUST DIV OP INSTR 3

(NO CHANGE FROM VERBAL ORDERS)

1. INFM : No change.

2. It may be anticipated that 4 Aust Fd Regt will relieve US Arty at present in posn in the NUMA NUMA TRAIL area with one Bty of 25-pr Short.

3. Date and time of relief - later.

4. Svy :
   (a) Regt Svy party will commence svy forthwith.
   (b) PT of origin and azimuth - Astrofix of 2 Aust Svy Coy RAE
   (c) Priority :-
   Gun posn
   OPs
   Tgt areas

5. No mov NORTH of present posn fwd US Tps without ref this HQ.

6. Details regarding :-
   Working party)
   Recce of gun and OP areas) later
   Adm incl Amn)

ACK
Issued by DRLS
Signed at L

G.D. Browne
Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

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War Diary.

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16 Nov 44

RAA 3 AUST DIV ADM INSTRUCTION No 4

Issued in conjunction with RAA 3 Aust Div Op Instr 3

Ref Map TOROKINA 1 in to 1 mile.

1. WORKING PARTY:

(a) Mov

(i) 4 Aust Fd regt working party and recce party will move bty area sq 6411 on 17 Nov
(ii) Owing to probable inaccuracy of map care will be exercised in briefing recce party as to exact location of gun area.

(b) Priority of work

(i) Selection and preparation of amn dump.
(ii) Clearing bty area and preparation of gun pits.
(iii) Preparation LMG posts and local def posns.

2. SUPS:

Party will take 14 days rations.

3. ACCOMMODATION STORES:

Tentage, cooking utensils and tools will be carried.

4. AMN:

(a) Amn will be stacked off the ground and kept dry.
(b) It will be spaced to allow ventilation.
(c) Unit will provide coverage against weather.

5. WATER:

(a) LARUMA RIVER will NOT be used for drinking owing to native compound upstream.
(b) Waterfalls and small tributaries are suitable for the purpose.

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6. TPT:

(a) 3 6 x 6 2½-ton GMT will be provided by 133 Aust Gen Tpt Coy located at 550951.

(b) 4 Aust Fd Regt will provide a guide at 170600 L to meet vehs at 133 Aust Gen Tpt Coy area and guide them to regtl area.

ACK

Issued by DRLS and LO

Signed at 16.1.50..L

W. L. Ross Capt.
(W.L.ROSS) SCRA 3 Aust Div (AIF)

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War Diary

APPX 15

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COPY No. 9...

HQ RAA 3 AUST DIV

WEEKLY TECHNICAL ARTILLERY INTELLIGENCE SUMMARY No 1

Information to 2400 hrs 17 Nov 44

CONTENTS

		Page
1.	ENEMY ARTY STRENGTH - BOUGAINVILLE	1
2.	CHARACTERISTICS OF JAP ARTY EQUIPMENTS	2
3.	ENEMY ARTY TACTICS	2-3
4.	RECCES - OPERATIONAL AREAS BOUGAINVILLE	3

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

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HQ RAA 3 AUST DIV

WEEKLY TECH ARTY INTELLIGENCE SUMMARY No 1

Infm to 172400I

HQ RAA 3 Aust Div (AIF)

18 Nov 44

1. ENEMY ARTY STRENGTH - BOUGAINVILLE

The following table shows estimated numbers and types of guns remaining on Bougainville. An accurate statement is not possible owing to the following:-

(a) It is not known whether units were originally up to W.E.T. strength.

(b) Some AA units have been used in a dual role of AA and Fd artillery.

(c) The number of guns destroyed by Allied A/C is not definitely known.

Totals shown below are considered to be the maximum numbers of each type of gun remaining, but owing to possible moves the totals in each area may vary.

AREA	155mm	14 cm	12 cm	105 mm	75mm Mtn/Fd	70 mm	37/47 mm	75mm AA
NORTH BOUGAINVILLE (Incl BUKA)			2		12	1	6	8
NUMA NUMA	3				6	5		
NE TOROKINA					2			
KIETA				3	7		7	2
SOUTH BOUGAINVILLE		8		1	10	5	4	18
TAITAI					4	4	3	
EMPRESS AUGUSTA BAY	2			2	9	4	10	
SHORTLAND IS		8	2		3	2		12
BALIALE IS			2		2			10
OVAU IS	-	-	-	-	-	-	-	-
FAURO GROUP	2				6	4		
MAIFU					4			
CHOISEUL	-	-	-	-	-	-	-	-
TOTAL	7	16	6	6	65	25	30	50

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In addition to this arty fire power their mortar strength for the area is -

4 - 90mm
12 - 81mm

Other AA weapons include - 49 - 25mm AA
29 - 20mm AA
70 - 13mm AA

(2 Aust Corps Information Resume - SOLOMONS - October 1944)

2. CHARACTERISTICS OF JAP ARTY EQUIPMENTS

It is not known what types of the various equipments listed in para 1 are held by the enemy in this area, but the characterists of usual types held are listed below:-

12cm Dual Purpose Gun	Horizontal Range Vertical Range	21,000x (approx) 19,000'
105mm gun	Wt. of shell Range	35 lb. 19,300x with streamlined 4mm 21,000x reported from BURMA
75mm Fd gun	Wt. of shell Range	13.85 - 14.3 lbs. 15,000x
75mm Mtn gun	Wt. of shell Range	14-15 lb. 9,800x
70mm Bn gun	Wt. of shell Range	8.36 lb. 3,000x
37mm Tk A gun	Wt. of shell Max. Range	not known 5,450x
20mm AA gun	Horizontal range Vertical range	5,450x 12,200'
75mm AA gun	Horizontal range Vertical range Wt. of shell	15,200x 32,800' 14.3 lb.
90mm Mortar	Range Wt. of bomb	612x - 4155x 11 lb. 10 oz.
81mm Mortar	Fires two bombs -	light, heavy
	Range 545x - 3280x - 207x - 1312x -	with 7.2 lb. bomb with 14.3 lb. bomb

3. ENEMY ARTY TACTICS

(a) The Jap usually builds an emplacement for his gun on the crest of a razor-topped hill. The emplacement has a very narrow arc and therefore gives very good cover against HE burst on the ground.
When firing he runs his gun into the emplacement from a dug-out, fires a few rounds and then immediately runs it back again. This leads to two conclusions:-

(i) CB must be immediate.
(ii) Time HE is much more effective than DA.

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3. (cont'd)

(b) Harassing Fire

It has been stated that the Jap when he has dug himself in, is not affected by heavy concentrations of fire other than by 5.5" guns. This is NOT the case and his morale can be broken by VERY CONCENTRATED fire of 25prs and 5.7" HOWS provided that the bombardments are laid on with cunning.

(i) They must be very concentrated.
(ii) They must aim at being frequent rather than sustained.
(iii) They must aim at trying to catch the Jap in the open as often as possible.
(iv) They must aim at disturbing his rest at night.

(MGRA's Monthly Letter No 22
September 1944)

4. RECCES - OPERATIONAL AREAS BOUGAINVILLE

Recces have been carried out by officers of RAA 3 Aust Div with a view to examining the problems involved in the taking over by Australian Artillery from US Artillery in UPPER LARUMA VALLEY and JABA RIVER areas.

Results of recces have proved satisfactory in that suitable gun posns have been selected in both areas.

G.D. Browne

Maj
(G.D. BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION:	Copy No
2 Aust Fd Regt	1
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2 Aust Mtn Bty	3
3 Aust Svy Bty	4
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File	7
War Diary	8-9

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War Diary

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19 Nov 44

RAA 3 AUST DIV OP INSTR 4

Ref Map BOUGAINVILLE 1 in to 1 mile

1. 9 Aust Inf Bn with under comd

   12 Aust Fd Bty
   One Det 7 Aust Inf Bde Sig Sec
   A Coy 11 Aust Fd Amb

   will relieve 132 US Inf Regt in the DOMABIE R 647106 SISIVIE 581223 sector. Relief will commence 23 Nov and be completed as soon as practicable thereafter.

2. 12 Aust Fd Bty with under comd 3 Det 5 Aust Mob Met Flt as from 170^{0} hrs 19 Nov will come under comd 9 Aust Inf Bn from 1200 L 19 Nov 44.

3. Comd 4 Aust Fd Regt and BC 12 Aust Fd Bty will report HQ 9 Aust Inf Bn at 0715 L 19 Nov and move with Bn R Gp.

4. Arrangements are being made for wire required for close protection to be made available.

5 Wireless comm will be est between 12 Aust Fd Bty HQ 4 Aust Fd Regt and HQ RAA 3 Aust Div on Regt frequency. Regt Sig Offr 4 Aust Fd Regt will arrange.

6. LO 4 Aust Fd Regt will report 9 Aust Inf Bn by arrangement Comds 4 Aust Fd Regt and 9 Aust Inf Bn.

ACK

Issued by DRLS
Signed at 0130 L

G.D. Browne
Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION	COPY NO
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3 Aust Div)	8
File	9
War Diary	10 - 11

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War Diary

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19 Nov 44

RAA 3 AUST DIV ADM INSTR 5

(Issued in conjunction to RAA 3 Aust Div OP Instr 4)

Ref Map BOUGANVILLE 1 in to 1 mile

1. RES :

The following res will be est under Div arrangements -

(a) Sups and expense stores — 10 days SWPA, 4 days Fd Ops

Amn — 14 days on scale vide Appx A

POL — 14 days

(b) Thereafter maint will be the responsibility of Bdes.

2. GUN PARKING AREA :

Vicinity IGARU sq 6411

3. MOV

Personnel, eqpt, first line amn will be moved as soon as possible at discretion CO 4 Aust Fd Regt. Tpt arrangements through this HQ where necessary.

4. MED :

Evac from ADS will be to 109 Aust CCS at TOROKINA by truck 2½ ton 6 x6.

5. ORD :

Scaling later.

6. REC :

Bde Wksps and AASC Wksps will remain within existing TOROKINA perimeter and will effect rec from fwd areas. Additional rec facilities will be provided by CEME 3 Aust Div on demand.

7. SAL :

Sal will be evac by returning sup vehs to 3 Aust Div Sal Unit.

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8. NATIVE LABOUR :

250 effective carriers are allotted DOYABIE RIVER - SISIVIE sector.

W. L. Ross Capt.
(W.L.ROSS) SCRA 3 Aust Div (AIF)

AGK

Issued by DRLS

Signed at 19.9.[illegible].L

Distribution	Copy No
4 Aust Fd Regt	1
CRA	2
BRA	3
SCRA	4
7 Aust Inf Bde	5
2 Aust Fd Regt)	6
2 Aust Mtn Bty) for infm	7
3 Aust Div)	8
File	9
War Diary	10 - 11

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Appx A to RAA 3 Aust
Adm Instr 5

AMN USAGE RATES

1. Expenditure in rounds per day -

SAA	(a) .303 in (Carton packed)	2000 rounds
	(b) .303 in (Charger packed)	3200 "
	(c) SMG 9 mm	3000 "
	(d) 1 in Sig (various colours)	12 "
	(e) Grenades 36m 4 sec	60 "
	(f) Grenades 36m 7 sec	20 "
Arty Amn		
	(a) 25-pr HE	15 rpg
	(b) 25-pr Smok	3 "

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W.D

RESTRICTED

19 Nov 44.

RAA 3 AUST DIV TRG INSTR 12.

PERIOD - 20 Nov 44 - 26 Nov 44 INCL

Ref Map : BOUGAINVILLE 1 in to 1 ml.

1. OBJECT :

To co-ordinate training 2 Aust Fd Regt and 4 Aust Fd Regt during the period 20 Nov 44 - 26 Nov 44 incl.

2. DISMOUNTED JUNGLE TRAINING :

Comds both units will liaise and mutually arrange for their respective units to make full use of the jungle training area. Subjects to be covered as laid down in RAA 3 Aust Div Trg Instr 11 para 3.

3. TECHNICAL TRAINING :

As per RAA 3 Aust Div Trg Instr 11 with following additions -

(a) Co-op with 84 Wing RAAF.

(i) Miniature Range :

Pilots will be reporting daily at 1330L to each of 2 Aust Fd Regt and 4 Aust Fd Regt with the object of familiarising themselves with engagement and assessment of arty targets and practicing the Arty R procedure as per AT Vol III Pam 8.

(ii) Air OPs :

Providing necessary permission is granted for officers to fly two officers from each of 2 Aust Fd Regt and 4 Aust Fd Regt will report daily to 18 Air OP Flt each morning commencing 21 Nov 44. Further advice as to time later.
The objects are :-

To enable gnr offrs to familiarise themselves with the Auster aircraft and air to ground comms.
To practice gnr offrs in dry shooting from Air OPs.
To familiarise offrs with the zones of fires and observation on both the LARUMA R and JABA R sectors. 2 Aust Fd Regt mainly JABA R, 4 Aust Fd Regt mainly LARUMA R.
To practice offrs in liaison duties and briefing of pilots. Fully marked maps will be taken by gnr offrs.

NOTE: Actual times of dry practices in Air OP shoots will be by arrangement between Regts and 84 Wing RAAF. Gnr offrs above-mentioned will act as LOs.

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3.(a) Cont'd

(iii) Arty R :

By arrangement between units and 84 Wing RAAF air to ground comn and dry shooting practice will be carried out again using Air OP offrs and LOs.

(iv) Frequencies :

Arty R 4885 alternative 4390

Air OP 4710 alternative 4390

(b) Range Shooting :

(i) Date	Time	Unit	Impact area	OP	Gun Area
24 Nov	0900-1500	Bty 2 Regt	A	250 (saddle)	TOROKINA BRIDGE area
25 Nov	0700-1500	4 Bty 2 Fd Regt	A&B	"	"
26 Nov	0700-1500	Bty 2 Regt	A&B	"	" (actual gun area advised later)

(ii) Amn : 500 rds HE 100 rds Smoke per Bty.

(iii) Commence registration of zone at 0900L on 24 Nov and 0700L 25, 26 Nov. 12 rds for registration per Bty.

(iv) Prepared to commence tactical shooting 30 mins after times in (iii) above.

(v) 2 OPs per Bty.

(vi) IG - BMRA unless otherwise advised.

(vii) Visitors : Certain high ranking American arty offrs will be invited to view guns and shooting 25 Nov. Unit will provide competent offr guide to explain guns and guide party to OP. Final instructions later.

G.D.Browne

Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION :

2 Aust Fd Regt
4 Aust Fd Regt
2 Aust Mtn Bty (for infm)
3 Aust Div
CRA
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War Diary (2)

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appx 19

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28 Nov 44.

RAA 3 AUST DIV TRG INSTR 13.

RANGE SHOOTING PRACTICE - 1, 2, 3 DEC 44.

Ref Map : TOROKINA 1 in to 1 ml

1. OBJECT :

To set out conditions governing shooting practice for 2 Aust Fd Regt and 4 Aust Fd Regt during period 1, 2, 3 Dec 44.

2. SCHEDULE OF SHOOTING :

Date	Time	Unit	Impact area	OP	Gun Posn
1 Dec	0700-1500	One Bty 4 Fd Regt	A & B *	250 (saddle)	III
2 Dec	"	"	"	"	"
3 Dec	"	4 Bty 2 Fd Regt	"	"	"

* No shooting WEST of 68 Easting grid line.

3. AIM :

500 rds HE 100 rds Smoke per bty.

4. Types of shoots will include :-

(a) Accurate registration of pin point tgts for future neutralisation.
(b) Production of fire on pin point tgts as quickly as possible.
(c) Fire plan Tp and Bty shoots on pin point tgts.
(d) Engagement of tgts indicated by inf offrs producing fire as asked for if technically sound.
(e) Close tgts. To be combined with (a), (b), (c), and (d).
(f) Any other type of shoot at COs discretion.

NOTE : Flexibility of thought and application will be regarded as the basis of all shooting and every opportunity will be taken to teach the practical application of the theory of gunnery.

5. Shooting under unit arrangements.

G.D.Browne

Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION :

2 Aust Fd Regt
4 Aust Fd Regt
2 Aust Mtn Bty (for infm)
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War Diary

—

appx 20

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COPY No 11

28 Nov 44

RAA 3 AUST DIV OP INSTR 5

PASSIVE AIR DEF BOROKINA AREA

WARNING:

1. Warning of air raids is received at this HQ by telephone from 3 Aust Div.

ACTION ON RECEIPT OF WARNING:

2. Air Raid warning YELLOW

(a) Operator on exchange at HQ RAA 3 Aust Div will notify duty offr immediately.

(b) This offr will notify HQ of all units under comd.

(c) Alarms will NOT be sounded and work will NOT cease on this warning.

3. Air Raid warning RED

Alarms will be sounded.

4. Air Raid warning GREEN

All clear will be sounded.

ALARM SIGNALS

5. The following alarm sigs will be used:

(a) Air attack alarm - succession of short blasts on whistle, siren or rattle.

(b) All clear - two long blasts on whistle, siren or rattle at intervals of one minute.

ACTION ON RECEIPT OF AIR RAID WARNING RED

6. (a) During daylight work will NOT cease, but sentries will be posted to give warning of immediate attack. Only when a sentry reports that a direct attack is imminent will personnel be ordered to take cover.

(b) On order to "take cover", tps will disperse in an orderly fashion.

(c) During the hrs of darkness all visible lights will be extinguished on receipt of RED warning. Arrangements will be made to screen lights effectively in those offices etc where work must continue.

(d) Exchanges, switchboards and essential comms will be manned continuously. An offr will be available at the telephone at each unit HQ during the continuance of the RED warning.

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7. Units will issue necessary detailed instrs in conformity with this instr.

ACK

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Signed at 1000..L

(G.D. BROWNE) BMRA 3 Aust Div Maj (AIF)

DISTRIBUTION	COPY No
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3 Aust Svy Bty	4
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SCRA	7
File	8-9
War Diary	10-11 ✓

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Appx 21.

RESTRICTED

30 Nov 44.

RAA 3 AUST DIV TRG INSTR 14

PERIOD 1 - 10 DEC 44

1. POLICY :

Training during above period will be conducted under unit arrangements. The following subjects in order of priority will be covered :-

(a) Bty Jungle Training exercises of minimum duration approx 52 hours covering two (2) nights in ~~open~~ JUNGLE and incl -

(i) Establishment of forward OPs for close shooting.

(ii) Selection and preparation of Bty position.

(iii) Dry shooting incl checks on accuracy of lines of fire.

(iv) Jungle survey.

(v) Perimeter defence of gun, CP and OP areas.

(vi) Use of W/T comms.

(vii) Adm arrangements incl sleeping, feeding, supply etc.

(viii) Anti malarial and anti disease precautions.

(ix) Jungle alertness.

(b) Shooting Practices as advised later dependant on availability of range, covering following types of shoots :-

(i) Accuracy shoots with POOR observation.

(ii) Registration of pin point targets for future neutralisation.

(iii) Close shooting.

(c) Miniature Ranging for Regt officers and staffs incl miniature ranging for RAAF officers and covering :-

(i) Normal procedures for engagement of targets.

(ii) Air OP procedure.

(iii) Arty/R procedure.

(d) Refresher Technical training covering :-

(i) Gun drill and laying.

(ii) Lines of fire.

(iii) CP organisation and drill.

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2. TRAINING AREAS :

(a) Allotment of area for training vide para 1 (a) above will be advised later. Until better and more extensive areas than are at present available are allocated to this HQ, units will make maximum use of existing jungle training area.

(b) Training vide para 1 (c) and (d) will be carried out in unit lines.

3. ADDITIONAL US EXPERIENCES :

The following US articles can with advantage be studied, promulgated and applied in jungle training :-

Ref US Field Arty Journal Sep 44.

Patrol party arty	page	596
Liaison in jungle	"	597
Bty Positions (Bougainville)	"	606
Comm problems in SWPA		
Sub-article - wire	"	600
" " - radio	"	600

4. FUTURE TRAINING :

On completion of above training it is proposed to undertake Bty jungle training incl shooting practices. It is hoped at a still later date to undertake similar training in co-op with Infantry.

5. REGTL OUTLINE SYLLABI :

Outline syllabus of training vide para 1 above will reach this HQ in duplicate by 1200 hrs 1 Dec 44.

Thereafter outline syllabi for the following week (Monday to Sunday) will be submitted in duplicate to reach this HQ by 1200 hrs on Friday of each week.

Syllabi will be submitted under the following headings :-

Date	Unit	Area of Training	Subject	Lessons	Remarks

G.D. Browne
Maj.
(G.D.BROWNE) BMRA 3 Aust Div (AIF)

DISTRIBUTION :
2 Aust Fd Regt
4 Aust Fd Regt
2 Aust Mtn Bty (for infm)
CRA
3 Aust Div
RAA 2 Aust Corps
File
War Diary (2)

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Appx 22

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Copy No. 6

30 Nov 44.

GRA's MONTHLY LETTER TO MGRA - No 5.

1. COMMAND :

Maj A.E.OLSEN was posted and took over duties as BC 4 Fd Bty, 2 Aust Fd Regt on 1 Nov 44.

2. STAFF :

(a) Capt J.LORD resumed duties as BM(L) on 28 Nov 44 on return from Naval Bombardment and Air OP Courses.

(b) Maj W.R.D.STEVENSON ceased to be attached to this HQ on 28 Nov 44 and resumed duty with 2 Aust Mtn Bty.

3. MOVEMENT :

(a)	(i) Comd Gp HQ RAA	arrived	TOROKINA	31 Oct 44.
	(ii) Remainder HQ RAA	"	"	5 Nov 44.
	(iii) 4 Aust Fd Regt	"	"	5 Nov 44.
	(iv) 2 Aust Fd Regt	"	"	11 Nov 44.
	(v) Det 2 Aust Mtn Bty	"	"	11 Nov 44.
	(vi) 3 Aust Svy Bty (1 OR & 5 vehs)	"	"	27 Nov 44.

(b) Movement of 3 Aust Svy Bty and leave drafts of 2 Aust Mtn Bty from mainland has been considerably delayed. This has been disappointing particularly in the case of the Svy Bty whose early despatch was particularly requested as an early start on survey was essential.

4. TRAINING :

In early part of month training was interrupted by movement and settling in to new area.

(a) HQ RAA

Technical training of SO's and clerks in production of orders, traces and in Intelligence work has been carried out. Organised sea bathing has been included for all ranks in an endeavour to check skin disease and improve swimming.

(b) Dismounted Jungle Training

Regts have carried out intensive jungle training for all ranks. Main items covered have been hardening training, jungle patrols, perimeter defence of Tp and Bty positions, living and anti-disease training in jungle.

(c) Technical Training

Refresher training has been carried out in air shoot procedure (see below), jungle survey and CP organisation procedure and drill. Experiments have been made with FOO sig comns in close country especially in use of 108 Mk III sets (see below).

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

4. Cont'd.

(d) Co-op with 84 Wing RAAF.

Every endeavour has been made to establish closest possible liaison with pilots of 5 Tac R Sqn and 18 Air OP Flight. Training has covered three phases :-

(i) Miniature Range

Pilots have been reporting daily to both field regts to conduct miniature range exercises - stressing engagement and assessment of arty targets and practicing Arty R procedure.

(ii) Air OPs

Commencing 19 Nov 44 two officers from each of 2 Aust Fd Regt and 4 Aust Fd Regt have reported daily to 84 Wing RAAF. These officers have made flights with pilots of both 5 Tac R Sqn and 18 Air OP Flight with the object of familiarising themselves with -

The zones of fire and observation on both LARUMA R and JABA R sectors.
Service aircraft especially the Auster III.
Air to ground comms.

(iii) Arty R

Dry shooting practice with air to ground comms has been carried out using Air OP officers referred to in (ii) above.

(e) Range Shooting

2 Aust Fd Regt carried out Bty shooting on 24, 25, 26 Nov 44, one day per Bty. Practice was concentrated on accurate registration of targets with all guns in thick jungle, and use of close target procedure.

5. TACTICAL :

(a) Relief of US Forces.

(i) 12 Fd Bty commanded by Capt C.J.DeYOUNG in absence of Maj J.C.TATCHELL, was placed under command 9 Aust Inf Bn on 19 Nov 44 for operations on NUMA NUMA Trail. 3 Det 5 Mob Met Flt was placed under command 12 Fd Bty. This Bty will relieve A Bty 221 FA Bn. Bty is now in action and relief will be concluded as soon as registration is complete.

(ii) It is anticipated that a Bty 2 Aust Fd Regt will relieve US Arty on JABA R sector.

(iii) Details of reliefs for US Arty within TORCHINA perimeter are not yet finalised.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

5. Cont'd

(b) Arty Recce.

The following arty recces have been carried out -

	Area	Object
(i)	TOROKINA Perimeter	Relief of Arty US 37 Div in defence of perimeter.
(ii)	NUMA NUMA Trail	Relief of US Arty and future operations.
(iii)	JABA RIVER Area	Relief of US Arty and future operations.
(iv)	SISIVIE Area	Future operations.

Aerial and ground recces of the above areas have also been carried out by CRA and members of Div Arty Staff.

Comment.

The general conclusions drawn from recce reports may be listed as follows. Certain of them will be dealt with in more detail under the heading of 'Equipment'.

(i) Guns can be used in support of operations in all areas recced.

(ii) Terrain is all very heavily timbered with tall jungle and dense undergrowth. In the coastal sector terrain is flat but on the NUMA NUMA Trail it consists of a series of high, narrow razorbacks. The LARUMA valley giving access to the latter area is a narrow gorge with a particularly fast flowing river and numerous difficult crossings. In this sector our troops at SISIVIE are approx 11000 yds forward of roadhead, and in the RETSIANA area approx 4000 - 5000 yds forward of roadhead.

(iii) Crest clearance presents difficulties in both areas and in the absence of high angle firing equipments extensive clearing is necessary for gun positions.

(iv) Tracked tractors TD9 are essential, particularly in the NUMA NUMA Trail area. Trucks 3-ton 4 x 4 have better performance in river crossing than Tractors Arty No 8. Trucks 3-ton 4 x 4 cannot negotiate crossings of the LARUMA river. US Command Cars give better performance but are NOT always able to make the crossings.

(v) Observation is extremely limited. Ground control of fire can only be exercised by FOOs with forward inf or with patrols. The use of the Air OP is essential, particularly in NUMA NUMA Trail area for efficient adjustment of fire.

(vi) FOOs must rely largely on 108 Mk III wireless sets for comms.

(vii) Supply forward of roadhead is by native porterage in NUMA NUMA area. In view of difficulty of extending roadhead it may be desirable to use 75mm pack how equipment in this area.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

5. Cont'd

(c) Projected Recces.

(i) Detailed recce of whole of TOROKINA perimeter with view to giving arty support over whole frontage of TOROKINA Base area.

(ii) Recce of REINI - TEKESSI area.

Of these the former will be completed by 1 Dec 44 and the latter as soon as circumstances permit.

(d) Survey.

As reported in last month's letter American survey in this area was unsatisfactory for arty purposes. Survey is now being co-ordinated on a Corps Grid from a point of origin fixed by 2 Aust Svy Coy.
Arty survey has been considerably handicapped by the delay in sending forward 3 Aust Svy Bty or even an operational detachment of that unit. This has been particularly disappointing as this unit was specially asked for early in October and would have been particularly valuable in the early stages. In the absence of the Svy Bty arty survey has been commenced by the Regt survey parties.

Co-ordinated by Svy Offr 4 Aust Fd Regt the following results have been achieved :-

(i) NUMA NUMA Sector.

4 Aust Fd Regt party are carrying survey up LARUMA valley to 12 Bty position in vicinity roadhead. Survey will then be carried forward to OP areas at SISIVIE and RETSIAPIA. Report of Svy Offr is attached as Appendix 'A'.

(ii) JABA R Sector.

2 Aust Fd Regt party has completed survey to forward positions at JABA R mouth. Report of Svy Offr is attached as Appendix 'A'.

6. AIR OP FLIGHT :

(a) Equipment.

Auster III aircraft appear inferior for this purpose to the American Piper Cub. The weight of armour and the Australian engine cut down the range to approx 1½ hrs flying time as compared with the Piper Cub's range of approx 2½ hrs plus. A strip of 400 yds length is also required for the take off as against the Piper Cub's 200 yds.

(b) Policy of Employment.

(i) Air Force personnel have shown a disappointing reluctance to enable these aircraft to be used as Arty OPs manned by artillery observers. They have shown a marked preference for the use of ordinary Arty R planes and procedures. This, however, is not satisfactory particularly in the hilly country in view of the close accuracy adjustments which will be required.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

6. (b) Cont'd

(ii) The two main difficulties in the way of proper employment of this Flight seem to be :-

Firstly, on RAAF instruction, quoted to but not sighted by this HQ laying down policy of employment of the Flight. From the portions of this instruction quoted it appears that the priority of roles in which Flight is to be used are laid down by the Wing Comd. It is submitted that the primary task of this Flight is arty observation and that the Flight should be placed under command of the GOC or senior arty officer in the formation for operations.
The same RAAF instructions apparently direct that pilots will NOT operate the aircraft forward of the front lines. It is submitted that in view of the absence of enemy aircraft this instruction should also be relaxed - close observation of targets is necessary under local terrain difficulties.

Secondly, RAAF lay down that the comm in the plane may only be used by Air Force personnel. If strictly adhered to this would mean either all control of fire being done by an air force observer, or all orders being repeated by the pilot acting as a signaller.

It is strongly submitted that these restrictions negative the main purpose of the Flight. The position is so disappointing that the matter has been taken up through command channels.

7. EQUIPMENT :

(a) Transport.

As rivers encountered in this area are deep and mostly fast flowing use of jeeps is only practicable where ferries or bridges are available. Command Cars while unable to cope with some conditions would give far better performance and their supply is recommended in the quantities suggested in Para 2 (a) (v) of Appendix 'B' to last month's letter to MCRA.

Tractors Arty No 8 have been found unsuitable in fast streams. They lack manoeuvrability and answer too slowly to the wheel.

3-ton 4 x 4 FWDs give very fair performance and these with American 2½-ton 6 x 6 are the most suitable wheeled vehicles for gun tractors.

No wheeled tractors are thoroughly dependable under these conditions and supply of tractors tracked TD9 is essential to ensure guns and equipment getting through and continuity of ammunition supply.

Supply of tractors tracked and command cars is an urgent operational requirement in this area.

Information has just been received from RAA 2 Aust Corps that approval has been given for units in RAA 2 Aust Corps to hold on WET the following -

TD9	7
TD18	1
2½-ton 6 x 6	16 (3-tonners in lieu)

but it is not known when these will be available.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

7. Cont'd.

(b) Trailers Jeep.

It is understood that representation is being made through Ordnance and Q channels for the trailer jeep (Aust pattern) to be fitted with a towing hook on the rear of the trailer.

Such a modification would be an acquisition from the arty point of view as it would enable jeep trains to be used where the operational necessity existed.

(c) Wireless Sets.

It appears likely that in some areas at least, arty will be operating well forward of roadhead. A light wireless set to replace the No 11 Set is necessary. No 22 Sets have NOT been made available in this area and No 108 Mk III Sets are not suitable for all comms. Summary of results of experiments carried out with the 108 Mk III Sets are attached as Appendix B.

(d) Bars Carrying US Pattern RL 27.

It is understood that some representation has been made by units direct to visiting AEME and Ordnance Officers, that the above store be obtained for Australian use.

Consequently this article has been closely examined and the following is submitted :-

(i) Advantages.

Fast means laying cable.
Axle, ball bearing mounted.
Suitable for open country.

(ii) Disadvantages.

Axle will NOT fit our No 1 quarter mile reel.
Requires two men to operate.
Has no device for reeling in.
Is heavy.
Unsuited to heavy jungle trails.

Summary.

In view of above mentioned disadvantages, it is not desired as a means of laying cable. The No 6 Layer Aust is by far preferable to the US pattern in that it is as light, if not lighter, enables the man to use both hands and has a device for reeling in.

(e) Yukon Pack.

Although packboards have NOT been used by units under command either in training or operations it is considered that they are an operational necessity in this area.

It is felt, however, that a lighter type of packboard than that mentioned in MGRA letter No 22, which is evidently designed to carry fairly heavy loads over short distances would be most suitable. Here, the requirement is for a packboard to assist in carrying comparatively light loads of up to 50 lbs over fairly long distances and difficult terrain, and it is suggested that a packboard similar to the US Army pattern, made of some plastic material and weighing approx 3 lbs would be ideal.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

7.(e) Cont'd.

The packboard (Aust)(MCO Eqpt Memo No 8) is at present on issue to 7 Aust Inf Bde and trials are being carried out by 12 Bty, 4 Aust Fd Regt at present in operations. Reports are NOT to hand but it is recommended that failing the production of a lighter board the existing packboard (Aust) be issued on the following scale -

Fd Regt - 100 - 25 per Bty plus 25 Regt reserve.
Mtn Bty - 50 - 40 plus 10 Bty reserve.

(f) Modifications to 75mm Pack How.

Attached as Appendix 'C' is a copy of recommendation from 2 Aust Mtn Bty for the following modifications to be carried out on 75mm pack hows now on issue to them:-

(i) Provision of two wheels pneumaticised per gun complete with hubs.

(ii) Fitting of towing lunette to rear trail.

(iii) Provision of split pin locking device to ensure stable locking of front and rear trail during movement.

No modification of existing axles is necessary.

CRA concurs in the recommendation and it is forwarded for consideration.

8. WE HQ RAA - TRANSPORT:

It is felt that the present WE entitlement of 3 trucks ¼-ton 4 x 4 for HQs RAA is inadequate. One truck is normally allotted to the CRA, one is necessary for the DMRA for recce etc and one is required by SCRA. This leaves no transport for ordinary internal administration matters and general duties of the HQ.

It is recommended that the establishment should be increased by one truck ¼-ton 4 x 4 raising the total entitlement to 4. Application for amendment of WE is being submitted through command channels.

9. MODIFICATIONS TO PROCEDURE :

(a) Regt Datum Points.

This procedure is considered sound in the circumstances set out in MCRA letter No 32. In addition to the points mentioned in MCRA's letter the use of such datum points especially if orientation had been obtained by star azimuth would enable -

(i) The relative position of the guns to be plotted and

(ii) The accurate determination of heights in the target area.

(b) Quick Barrage.

While appreciating that this procedure is suggested only for a specialised set of conditions it is not felt at present that it is suitable for adoption as a standard procedure for these conditions. There has been no opportunity for trials to be carried out as yet and further comments will be submitted after this has been done.

It is agreed that the circumstances postulated do require modifications to normal procedure. Registration of all Btys and probably all Tps will often be necessary and it is generally appreciated that it will often be necessary to produce the barrage in Tp CFs subject to checking in Bty CFs with resources

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

9.(b) Cont'd.

available. It is considered, however, that the pro forma for orders suggested is too verbose and can be condensed. Much signal traffic in this regard can also be saved by provision in Unit Battle Standing Orders.

Comments on the operation of the drill procedure as suggested will be forwarded later.

10. DISTRIBUTION MGRA's MONTHLY LETTER :

Could further consideration be given please to extending the distribution of the above to enable copies to be made available to units. The reproduction of extracts from the letter for promulgation to units takes a great deal of time and is a strain on the comparatively small staff of this HQ. For instance last month there was so much matter of general interest and importance in the letter that it's reproduction for units involved 20 pages of typing. It is felt that in view of the importance of much of the material contained in the letters promulgation by passing the letters amongst COs is unsatisfactory.

If this matter should be reviewed it would be appreciated if Five (5) copies of the Monthly Letter could be made available to this HQ in future.

11. ROYAL ARTILLERY JOURNAL :

It is regretted that no contributions have been received this month from units under command. Conditions of movement and taking over new areas and tasks have left little opportunity for such writing.

B.E. Klein Brig.

(B.E.KLEIN) CRA 3 Aust Div (AIF)

DISTRIBUTION	Copy No
MGRA	1
CCRA	2
CRA	3
File	4
✓ War Diary	5 - 6

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Appendix 'A'

Subject :- ARTY SURVEY - NUMA NUMA TRAIL

Ref Map : 0481 TOROKINA 1" Series.

1. A survey party consisting of 1 officer and 13 ORs left the 4 Aust Fd Regtl area on 16 Nov 44 and proceeded to 651119 and established a bivouac. Names of personnel were as follows :-

VX117142	Lt	J.E.BARWICK	
VX67620	Sjt	CLAMP C.R.	
VX131705	Bdr	BUNDY N.D.	Instrument operator
NX192706	L/Bdr	MONTGOMERY S.A.	" "
VX67570	Cnr	VARY J.A.	Computer
VX89685	"	BLAKER H.H.	"
VX83190	"	HARMAN C.A.	Chainman
NX192355	"	BAKER B.G.	"
QX57157	"	BUTLER A.	"
VX73536	"	ENION B.	Wadman
VX72108	"	HALL D.R.	"
V32564	"	ANDERSON E.J.	Batman
VX148641	"	CAMERON R.	Driver
VX72003	"	WIGG F.L.	"

2. On 17 Nov 44 a recce was carried out to the proposed arty OP area in square 6613, and it was decided that a traverse up to this point would be possible providing that a certain amount of clearing was carried out.

3. At 0730 hrs on the 20 Nov 44 a traverse was commenced from 651119, orientation having been determined from a sunshot, and arbitrary co-ords accepted for the start point, towards the OP area. Composition of the party was as follows :- 1 officer, 1 sjt, 2 wadmen, 2 chainmen, 1 instrument operator, 2 computers and 2 personnel to assist the wadmen in clearing undergrowth. Work was completed for the day at approx 1530 hrs, during which time 1550 yds (horizontal distance) was covered with a total number of set-ups of 28. After the first 300 yds the terrain rose at an angle of approx 25° for 900 yds. Where possible the 9 ft Banderole was used as chaining in this terrain was found difficult.

4. At 0900 hrs on the 21 Nov 44 the traverse was continued using the same party and completed at 1500 hrs in the OP area where a point was fixed. During the day a distance of 1400 yds was covered with 20 set-ups.

5. At 0730 hrs on the 22 Nov 44 a second traverse was started using the same start point as for the previous traverse, but working in the reverse direction towards the LARUMA river. This traverse occupied a period of 3 days of approx 7 hrs per day during which time a distance of 12300 yds was covered with 80 set-ups. Two sunshots were done each day for the purposes of checking line. For this traverse a party of 9 were used consisting of 1 officer, 1 sjt, 2 wadmen, 2 chainmen, 2 computers and an instrument operator.

6. On the afternoon of 24 Nov 44 the traverse was linked up with a peg of 2 Fd Svy Coy at 604018.

7. On 25 Nov 44 co-ords were calculated from the information obtained using Svy Coy co-ords as a basis. Orientation was adjusted throughout using azimuth derived from the various sun-shots. This was necessary on account of an error in line of 5' over the complete traverse. Co-ords of a peg in 12 Bty gun area and a palm tree on a feature in the vicinity of A OP were then given to BC 12 Fd Bty.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

8. These co-ords do not tie in with the 0481 TOROKINA 1" series being some 1000 yds out in the Eastings and 2000 yds in the Northings, but they do tie in with the 1 : 25000 /sheet now being printed.

/KAUARO

9. No particular difficulties were encountered, but it is considered for Jungle Survey, the normal traverse party is insufficient, on account of the necessity for a considerable amount of clearing to be done.

It is essential that wads are accurately plumbed as inaccuracy in this regard will cause line error where many short legs are used.

The banderole was found most useful for river crossings.

Subject :- ARTY SURVEY FROM TOROKINA TO JABA RIVER

AS CARRIED OUT BY 2 AUST FD REGT SVY PARTY

18 - 23 Nov 44.

Ref Maps: TOROKINA 1" to 1 ml
MOTUPENA PT 1" to 1 ml

1. Data for origin of traverse was supplied by 2 Aust Svy Coy- Point of Origin being Astrofix at mouth of TOROKINA RIVER (old bed). Co-ords 3563439.9 1167792.0

2. A recce showed that the best method of producing the result with the instruments available was a two-party check traverse along the foreshore.

3. The parties consisted of : 1 Officer, 1 Sjt, and two traverse parties consisting of four men.

The personnel were as follows :-

	VX38168	Lt P.W.HANSEN	VX115279	Sjt	SCOTT R.R.
Observer	N217709	Bdr MITCHELL R.M.	VX87728	Bdr	COWAN J.W.
Computor	VX147239	Cnr SLATER S.M.	VX132421	"	LARKIN J.
Chainman	NX53522	" GHOURLS N.	V159205	Cnr	PISCONERI J.
Rodman	VX34822	" CUMMINS R.	NX28717	"	HARVEY C.C.

4. Camp was established on 18 Nov 44 at a point on the REINI RIVER and work on the traverse commenced on the morning of 19 Nov 44. The final check completing the traverse was made on the morning of 23 Nov 44. Camp was transferred to the TEKESI RIVER area on the 21 Nov 44.

5. The average rate of progress was 5000 yds per day.

6. Hours work, 9 hours per day including checking of computation

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

7. The 23 Nov 44 was spent in general checking and tracing progress of work. Throughout the traverse the two parties' work agreed both in bearings and co-ords within the accuracy of the instruments. During the traverse seven sun Azimuths were observed to check bearings.

8. It was found that the BP fixed approx 400 yds NORTH of JABA RIVER differed in co-ords from the map by approx 1400 m E and 1600 m N. Survey co-ords of BP at JABA RIVER 3576933.2 1176392.7. Approx map co-ords of same point 3577750 1174750. The trace of the traverse left the map coast line at approx map spot 757823 and continued to get further WEST of the coast until the final point was reached.

9. As a result of work carried out it was found that the map is not accurate enough for Arty predicted shooting particularly from TEKESSI RIVER to JABA RIVER.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Appendix 'B'

REPORT ON TRIALS - 108 Mk III W/T SETS

1. The following results were obtained in trials carried out in thick jungle, both flat and hilly country being used.

(a) Rod aerial stationary to rod aerial mobile. One set in open clearing, one in jungle. - Good reception 600 - 800 yds.

(b) Rod aerial mobile to 68' end fed aerial stationary. - Good reception 600 - 800 yds. Conditions as in (a) above.

(c) Two stationary sets using 68' end fed aerial. - Variable strenght to 2000 yds. Good results obtained up to 10000 yds with one station at high altitude.

2. Whilst 68' end fed aerial appears to be most satisfactory, difficulties of erecting it if in close contact may limit its use.

3. Tests are proceeding and experiments will be carried out with 34' end fed aerial.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Appendix 'C'

Subject :- 75mm PACK HOWITZER - PROVISION OF PNEUMATICISED EQPT.

RECOMMENDATIONS BY 2 AUST MTN BTY

1. 75mm Pack Hows M1 on M1 A1 carriage now on issue to Aust Mtn Btys are equipped with steel tyred wooden wheels not adapted for towing.

2. Later marks of carriage for this equipment from M3 onwards are fitted with pneumaticised wheels and the trail has been modified to include a towing lunette. This enables the equipment to be towed by jeeps.

3.. To convert the present equipment into equipment capable of being towed the following modifications would be required :-

(a) Provision of two wheels pneumaticised per gun complete with hubs.

(b) Fitting of towing lunette to rear trail.

(c) Provision of split pin locking device to ensure stable locking of front and rear trail during movement.

No modification of existing axles is necessary.

4. It is recommended that the modifications listed in (b) and (c) above be carried out on these equipments and units be authorised to carry pneumaticised wheels for all guns on WE.

5. As the guns are primarly designed for pack transport it is recommended that the steel tyred wheels be retained as normal operational equipment as they are lighter and more suitable for pack.

5. There are many circumstances where being able to tow the equipment would be of great advantage :-

(a) During training.

(b) In operations

(i) in getting equipments to jeep head prior to commencing pack transport.

(ii) in the event of guns being used in amphibious operations. In this case speed in getting the guns into position on or off the beach would be of the utmost importance. Manhandling of steel tyred guns in these circumstances is slow and difficult. If the guns were fitted for towing, jeep and gun could be landed in the same craft - the gun being manhandled up the beach followed by the jeep carrying ammunition and stores which could then tow the gun to its position.

The wheels are easily interchangeable and it is suggested that the flexibility of the equipment would be greatly enhanced.

6. With regard to transport it is recommended that if this suggestion should be approved the entitlement of a Mtn Bty should be increased by 4 trucks ¾-ton 4 x 4. Present transport is supplied purely for administration and not for operational purposes. It is considered that the addition of the four towing vehicles would be adequate without further changes.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

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STANDING ORDERS

FOR

HQ RAA 3 AUST DIV (AIF)

NEW GUINEA

SEPTEMBER 1944.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

C O N T E N T S

ORGANIZATION :

1.	General	1
2.	Administrative Area	1
3.	Advance and Rear HQ	1
4.	Distribution of duties	1
5.	Office Organisation	1
6.	Duty Officer and Duty Clerk	1

MOVES :

7.	Grouping for moves	1
8.	Movement Orders	1
9.	Closing of HQ	1-2

COMMUNICATIONS :

10.	Signal Office	2
11.	RAAF Sets	2
12.	MCDRs and Orderlies	2

PROTECTION :

13.	Responsibilities	2
14.	Fire Units	2
15.	AA and Anti-gas	2

ADMINISTRATIVE

16.	Responsibility	3
17.	Messing	3

APPENDIX A.	-	Distribution of Duties
APPENDIX B.	-	Office Organisation
APPENDIX C.	-	Orders for Duty Officer and Duty Clerk.
APPENDIX D.	-	Grouping for moves

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DISTRIBUTION	COPY No
CRA	1
BMRA	2
BM(L)	3
SCRA	4
SC(L)	5
IORA	6
Amen Officer	7
2 Aust Fd Regt	8
4 Aust Fd Regt	9
RAA First Aust Army	10
RAA 2 Aust Corps	11
3 Aust Div	12
File	13
War Diary	14-15
Spares	16-18

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

ORGANIZATION

1. GENERAL

HQ RAA will often remain as part of Div HQ, but will be prepared to operate as a self-contained HQ.

2. ADMINISTRATIVE AREA

(i) When HQ RAA is included in the area administered by Camp Comdt Div HQ, the later will allot space for RAA Offices, Messes, Transport, etc., in the respective Div HQ areas.

(ii) When HQ RAA has a separate area allotted or is detached, the Staff Captain or Staff Captain Learner will be responsible for organizing the area and will allot sites for :-

Offices
Officers, Sjts and ORs Messes
Officers, Sjts and ORs rest areas
Vehicle Park
Q Store

3. ADVANCED AND REAR HQ

When Div HQ is divided, HQ RAA will be at advanced Div HQ. The Staff Captain or Staff Captain Learner will, when necessary, represent HQ RAA at rear Div HQ.

4. DISTRIBUTION OF DUTIES

Is given in Appendix "A"

5. OFFICE ORGANIZATION

Is given in Appendix "B"

6. DUTY OFFICER AND DUTY CLERK

Orders for these are given in Appendix "C"

MOVES

7. GROUPING FOR MOVES

Is given in Appendix "D" which also shows the allotment of personnel to vehicles and the groups of Div HQ with which they will move when HQ RAA moves as part of Div HQ.

8. MOVEMENT ORDERS

(i) Will be issued by officer in charge of the group of Div HQ concerned or, if HQ RAA moves separately, by the BM HA.

9. CLOSING OF HQ

When HQ RAA closes at its original location and opens at a new location at the same hour, Advanced HQ will move in time to open at the new location by the time stated.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

When Rear HQ moves at a time prior to opening of Advanced HQ, a report centre manned by one officer or toher responsible person detained by tne BM will remain at the original location. The time of closing the report centre depends on circumstances prevailing will be fixed by the BM, provided that the report centre may not be established where there is considered to be no liklihood of messages being delivered to the original location.

COMMUNICATIONS

10. SIGNAL OFFICE

(i) When HQ RAA is at Div HQ and no special signal communications are arranged for HQ RAA, all messages, orders, etc., for dispatch by sigs will be sent by orderly to the Div Sig office.

(ii) When special communications are arranged for HQ RAA, the BM will arrange with sigs and will issue orders as to which signal office, or terminal, messages for the various addresses are to be sent.

11. RAAF SETS

Will be under the orders of the BMRA, who will detail their hours of watch. Messages received will be delivered direct to him. When operating apart from Div HQ he will also allot their site.

12. MCDRs AND ORDERLIES

Will not approach HQ RAA or any other office on MCs, but will park their MCs at the HQ RAA vehicle park.

PROTECTION

13. RESPONSIBILITIES

(i) When HQ RAA is included in the area administered by the Camp Comdt Div HQ, the SCRA will liaise with the Camp Comdt regarding local protection.

(ii) When HQ RAA is detached or allotted separate area, the BM will lay down a policy and will detail an officer to arrange the posting of sentries and selection of alarm posts. BMRA will prepare and issue plan for local defences.

14. FIRE UNITS

All personnel will be capable of firing the LMG Bren, Owen SMG, Rifle and Pistol or Revolver.

15. AA AND ANTI-GAS

See Standing Orders for Protection against Gas and Air Raids, in Billets, Camps and Bivouacs. When HQ RAA is not included in the Div HQ air defence area, the PAD officer will be the IOR.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

ADMINISTRATIVE

16. RESPONSIBILITY

The Staff Captain is responsible for the administration of HQ R.A. personnel and vehicles.

17. MESSING

(i) When HQ R.A. is included in Div HQ, messing arrangements and cooks etc may come under the orders of Camp Comdt.

(ii) When HQ R.A. mess separately, the following messes will be established :-

(a) Officers Mess

(b) Sjts Mess

(c) ORs Mess

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

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Appendix "A"

OFFICERS

1. Duties will normally be allotted as follows :-

"G"	BM	- BM(L)
"A" & "Q"	SC	- SC(L)
Int	IO	

In addition the BM is responsible for supervising the work of all Staff Officers and for allocating and collating work as may be required.

The Amenities Officer in addition to his normal duties will be prepared to assist Staff Officers as instructed by the BM.

2. The IORA is responsible for :-

(a) collection, collation and dissemination of all intelligence information and reports;

(b) maintenance of Intelligence Diary and War Diary. The latter will be completed as opportunity offers, but at least daily;

(c) the record of Div Arty locations and zones of fire and observation;

(d) the safe custody of all security documents;

(e) security of HQ RAA;

(f) maintenance of unit reference library;

(g) training of air sentries and in A/C identification;

(h) the erection, establishing and dismounting of CRA's office including maintenance of CRA's BATTLE MAP;

(j) erection and disposition of unit signs clearly indicating location of HQ RAA;

(k) IORA will normally perform the duties of Officers Mess Secretary.

3. An officer detailed to accompany the CRA on reconnaissance is responsible that :-

(a) he takes with him map, notebook and message pads;

(b) DR and if possible, a wireless car provided by Div sigs;

(c) the BM is informed of the route to be taken and probable hour of return, and that he asks all other Staff Officers if there is anything which he should do for them while he is accompanying the CRA;

(d) he obtains the latest situation from any HQs or units visited;

(e) he takes notes of any orders or decisions given by the CRA and that he checks with unit commanders all important details of verbal orders issued;

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

(f) the BM receives as early information as possible of any verbal orders issued. If the CRA is not immediately returning to HQs he should either bring his notes himself, using the wireless car, if available, or send them by DR. It is of particular importance that early information is sent of the area of any large scale fire plan trace required. This information can often be sent by telephone or wireless without prejudice to secrecy and is required in order that work may be commenced on the map detail for the trace.

OTHER RANKS

4. The Chief Clerk is responsible to the SCRA for :-

(a) the discipline, turnout, hygiene, anti-malarial discipline and welfare of all OR personnel.

(b) for the organisation of clerical duties within the office. He will consult the BM as to the number of clerks required on duty in addition to the duty clerk. He will arrange reliefs so that clerks get meals and as much rest as possible.

(c) for keeping the "Acknowledgment Check"

(d) for clearing the message boards at 0900 hrs daily (see para 3 of Appendix "B")

(e) for supervising, checking the correct assembly, numbering and despatch of OOs

(f) for detailing all duties, including duty clerk and duty orderly

(g) for the organisation and running of the Sjts Mess

5. The Sjt Clerk "G" is primarily responsible for "G" correspondence. He will keep the "G" files.

6. The Sjt Clerk "AQ" is primarily responsible for "A" and "Q" correspondence. He will keep the "A" and "Q" files.

7. The clerk TG III will carry out clerical duties as instructed by the Chief Clerk.

8. The Draughtsman Topographical is primarily responsible for all tracings, air photographs, maps and the issue of maps. He will assist the IORA in the performance of his duties. He will be trained to take his turn as duty clerk.

9. The CB Clerk is responsible for the recording and maintenance of all CB information. He will act as Confidential Clerk to the IORA in addition to these duties. He will be trained to take his turn as duty clerk.

10. The Bdr "Q" is primarily responsible to the SC for :-

(a) the storage and maintenance of unit equipment and stores

(b) collection of rations

(c) the cleanliness and general supervision of cooks and kitchen

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

(d) the erection, cleanliness and general supervision of the ORs Mess. He will ensure that all personnel get their meals;

(e) maintenance of unit MT;

(f) supervision of drivers;

(g) issue of POL;

(h) issue of G 2s;

(j) all unit MT records.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

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Appendix "B"

1. IN MESSAGES

(a) IN correspondence and messages of a general or routine nature will be registered "IN" and delivered to the officer dealing with the subject matter of the correspondence or message together with the COMPLETE file.

(b) IN correspondence and messages NOT of a general or routine nature will be handed direct to the officer concerned together with the COMPLETE file.

(c) In all cases of doubt as to whom correspondence or messages will be handed, the same will be shown to the Senior Staff Officer present at the HQ at the time.

2. OUT MESSAGES

(a) The number of copies prepared will be one for each addressee, one for signal office and one for file.

(b) Will be registered and delivered by orderly to the signal office or direct to other addressees in the vicinity. The orderly will obtain receipts in a receipt book.

(c) An acknowledgment check will be kept in a book in the following form :-

A C K N O W L E D G M E N T C H E C K

No	TOO	Addressee	Subject	To be ack by	Ack No and TOO

The originator will state the time "ack" is required and the clerk keeping the register will inform him or the duty officer if it is not received by that time.

3. TELEPHONE CONVERSATIONS

A pad will be kept near each telephone. Records of information received and decisions given will be made. These will be handled as for "In messages".

4. OPERATION ORDERS

The drill for issuing an operation order is as follows:-

(A) When it is expected that an operation order will shortly have to be issued the following preparations will be made.

(1) Any available "G" or "Q" information will be obtained from div H.Q.

(11) I.O. will ask B.M. if an intelligence summary is needed.

(111) Chief Clerk will have all clerks on duty, the office prepared and have draft distribution list ready for approval by the B.M. Specimen waxes or master sheets will be kept ready.

(B) All officers will take down the details of the order and mark their maps.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

(c) Before starting work the BM will plan the order, deciding what parts of the order each officer is to be responsible for, what appendices will be required and what letters will be given to the appendices. He will inform the other officers and the Chief Clerk of this plan and of any further details decided by him, and also clear up any difficulties they may have. He will warn the sigs of the probable time when the order will be ready. As far as possible he will allot work to officers as given below. Each numbered paragraph will be marked "X". The Chief Clerk will fill in the appropriate number before tiying is commenced.

(d) The BM assisted by the BM(L) will produce :-

(i) Distribution list.

(ii) Task tables and/or task tracings.

(iii) Method and intercommunication paras.

(iv) March tables (but see sub-para (e) below).

(e) The SC assisted by the SC(L) will produce :-

(i) Adm paras.

(ii) March table (if required by the BM).

(f) The IO will produce :-

(i) Information paras.

(ii) Information tracing, if required.

(iii) Air tracing.

(g) Map references and coordinates will be checked (by another person when possible) before being sent to type.

Staff Officers will ask the BM to approve their paras before the latter are typed.

(h) The Chief Clerk will :-

(i) Allocate work to the other clerks so that all are occupied and so there is no waste effort. One clerk will be ordered to deal with all "in" and "out" correspondence during the time the operation order is being produced in addition to his work on the order.

(ii) Send a copy of the distribution list to the signal office as soon as it is ready.

(iii) Supervise assembly, numbering and dispatch.

(j) Sjt Clerk "G" will produce the body of the order, getting out the distribution list first.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

(k) Gnr Clerk assisted by orderlies will :-

(i) Work the duplicator, producing the number of copies of each sheet as shown on the distribution list.

(ii) Number consecutively each copy of the various sheets.

(iii) Place the numbered copies of each sheet in the appropriate slips on the "distribution box".

(iv) Pin up the copies of the complete order in accordance with the distribution list.

(l) The Sjt Draughtsman will prepare all tracings for duplication.

(m) The number of copies of tracings and task tables to be issued where these differ from the number of copies of the OO will be as follows :-

Unit	OO	Fire Plan Trace or Task Table	Air Trace
Fd Regt	1	11 per Regt	5 per Regt
Mtn Bty	1	2 per Bty	1 per Bty
Inf	1 per Bde	1 each Bde & Bn concerned	1 each Bde & Bn concerned

NOTE : Reference item d (i) and (m), the importance of the distribution list being completed before the order is begun. The use of a specimen "maximum distribution" lists, from which deletions can be made, is a great help in ensuring that comprehensive lists are made out.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Appendix "C"

ORDERS FOR DUTY OFFICER AND DUTY CLERK

1. A Duty Officer or Officers will be detailed by the BM for a tour of duty at any time when it is unnecessary for all officers to be on duty. A Duty Officer will:-

   (a) Remain in the office and, unless otherwise ordered, remain awake for his tour of duty.

   (b) See all incoming messages and take all telephone calls.

   (c) Deal with any urgent matter.

   (d) Arrange for non-urgent messages to be filed and passed to the officer concerned when he comes on duty.

   (e) Keep in note form a diary of events including action taken and matters awaiting action. He will hand over this to his relief.

   (f) Keep up the situation map.

   (g) When HQ RAA is detached and sentries posted, he will visit them once during his tour of duty.

2. The Duty Clerk will be detailed by the Chief Clerk. He will be assisted by the Duty Orderly and will be responsible for :-

   (a) Registration and filing of messages.

   (b) Dispatch.

   (c) Keeping the "ack" register.

   (d) Ensuring that the "ack" register and all items not finally dealt with are handed over on relief.

   (e) Obtaining orders from the Duty Officer as to whether either he or the Duty Orderly may sleep during their tour of duty.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

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Appendix 'D"

GROUPING FOR LOVES

NOTE : The distribution of personnel to vehicles may be varied to suit the situation.

TACTICAL LOVES

Group of Div HQ	Vehicle	Personnel		Stores
		Offrs	ORs	
Adv HQ with Div "O" Group	Jeep and Trailer	CRA BMRA	Dvr Batman	1 Tent
	Jeep and Trailer	IORA	Dvr Batman 1 Sig	RAAF No 22 Wireless Set, [illegible] 1 tent
Rear HQ with Div Adm Group	Jeep and Trailer	BM(L)	Dvr Batman Sjt Clerk	
	3 ton (Gen Tpt Coy)	SC	Chief Clerk Sjt Clerk Gnr Clerk Draughtsman Batman(BM) Sig	Office Equipment 4 tents
	3 ton (Gen Tpt Coy)	SC(L)	Bdr Q Bdr CB Spare Dvr 3 Orderlies	Q Stores Accomodation Stores
	3 ton (Gen Tpt Coy)	Amen Offr	Hygiene Dutyman 3 Batmen 2 Cooks General Dutyman Offrs Mess	Kitchen Gear Offrs Mess Sjt Mess
	3 ton (Gen Tpt Coy)	[illegible]	Amenities Sjt (i/c) Spare Dvr	10 tents Accomodation Stores

NOTE :

1. If Recce Party required, IO and party may be detached
2. One Jeep inter-changable between BM(L) and SC if latter required with advanced HQ. This Jeep mobile and may join Adv HQ only if required. Hence inclusion of Sjt Clerk

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

NON TACTICAL MOVE

Party or Group	Vehicle	Personnel		Stores
		Offrs	ORs	
CRA's Party	Jeep and Trailer	CRA	Dvr Batman	
Recce Party	Jeep and Trailer	IO	Dvr Batman	
Adv Party	Jeep and Trailer	BM or BM(L)	Dvr Batman	
	3 ton (Gen Tpt Coy)	SC or SC(L)	Chief Clerk 1 Gnr Clerk Bdr CB Draughtsman 2 Sigs 2 Orderlies	Office Equipment and 5 tents
	3 ton (Gen Tpt Coy)		1 Sjt Clerk 1 Cook Hyg Dutyman Gen Dutyman (Offrs Mess) 2 Spare Dvrs 1 Batman	6 tents Accomodation Stores Cooking Gear Offrs Mess Sjts Mess
Rear Party	3 ton (Gen Tpt Coy)	BM or BM(L)	1 Sjt Clerk Bdr Q 1 Cook Batman	Q Stores Accomodation Stores Cooking Gear
	3 ton (Gen Tpt Coy)	SC or SC(L) Amen Offr	Amen Sjt 2 Batmen MC Orderly	Q Stores 5 tents

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form W.3008
(Adapted) (Page 1)
(Revised Jan., 1943)

FIELD RETURN OF OFFICERS

45/44 (Serial No.)

At 0600 Hrs. Saturday 4/11/1944. HQ RAA 3 CORPS (Unit)

W.E. 11/2/6. OFFRS. 6 O.R's. 20 + OFFRS. 1 O.R's. 3 ATT. BY W.E.

PART A.—POSTED STRENGTH, SURPLUS OR REINFORCEMENTS REQUIRED.

1	2	3	4	5	6	7	8	9	10
W.E. EXCLUDING ATTACHED.				DETAIL.	ATTACHED ALLOWED BY W.E.				
Rein'fts Required.	Deficient W.E.	Surplus to W.E.	Posted Strength.		Arm or Corps.	Posted Strength.	Surplus to W.E.	Deficient W.E.	Rein'fts Required.
				*					
1	–	–	–	1 * Brigadier					
				Lieut.-Colonels					
2	–	1	–	1 Majors					
2	–	–	1	3 Captains					
1	–	–	–	1 Lieutenants 1	AA Amen Ser	1	–	–	–
				Quarter-masters					
				A.A.N.S. and A.A.M.W.S. Offrs.					
				Civilians Counting as Offrs.					
6	–	1	1	6 1		1	–	–	–

DETAIL		A.I.F.	C.M.F.	A.W.A.S.	A.A.N.S.	A.A.M.W.S.	CIVIL.	R.A.N.	R.A.A.F.	* *	TOTAL.
A.		A 7									7
E.(1)											
E.(2)											

Analysis of Part A to be shown here by ALL units. Only units notified in para. 10 of instructions for compilation of form will complete Part E(1) & E(2).

* Insert detail of higher ranks as necessary.
* * Personnel belonging to a category not provided for in the analysis will be shown in this Col. Particulars will be shown, e.g., 20 U.K. Forces; 10 N.Z. Forces.

PART B.—PARTICULARS OF OFFICERS JOINED OR QUITTED DURING WEEK.

OFFICERS JOINED DURING WEEK

Army No.	Rank.	Name and Initials.	Unit From.	Date.	CAUSE.

OFFICERS QUITTED DURING WEEK.

Army No.	Rank.	Name and Initials.	Unit To.	Date.	CAUSE.

PART C.—DESCRIPTION OF OFFICERS WHOSE RETURN TO (Unit) IS PARTICULARLY REQUESTED. /194.

Army No.	Rank.	Name and Initials.	REMARKS (e.g., present whereabouts if known).

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form W.3008
(Adapted) (Page 2)
(Revised Jan., 1943)

HQ RAA 3 Aust Div (AIF) Unit

appx 23

45/44 (Serial No.)

PART D.—NOMINAL ROLL OF OFFICERS ON POSTED STRENGTH

At 0600 Hrs. Saturday 4/11/1944. (Total to agree with Columns 4 and 7 of Part A.)

1	2	3	4	5	6	7	8
Substantive Rank and Higher Temporary Rank if Held.	Army Number.	Surname.	Initials.	Posting.	Whether present with Unit (insert Yes or No)	If not present with Unit, state how employed.	Date of Detachment.
Col T/Brig	NX 4	KLEIN	B E	CRA	No	Adv HQ	21/11/44
Capt T/Maj	WX 103	BROWNE	G D	DMRA	No	Adv HQ	23/10/44
Capt	TX 2064	LORD	J	DM(L)	No	Sch of Air Co-op	6/9/44
T/Capt.	VX 14657	ROSS	W L	SCRA	No	Adv HQ	26/10/44
Capt	WX 17087	DAVIS	G B	SC(L)	No	Rear HQ	27/10/44
Lt	VX 102762	SCOTT	F W W	LORA	Yes		
Lt	NX 27066	LOWRIE	F J I	Amen Offr	No	Adv HQ	27/10/44

PART E.—NOMINAL ROLL OF OFFICERS ATTACHED FROM OTHER UNITS.

Substantive Rank and Higher Temporary Rank, if Held.	Army Number.	Name and Initials.	Unit.	Date of Attachment.	Nature of Attachment.
Maj	NX 12379	STEVENSON WRD	2 Aust Mtn Bty	3/10/44	Att for Staff Duties
Lt	NX 116250	CANDY RF	Sigs 3 Aust Div	27/9/44	Att for duty as Arty Sig Offr

4/11/44
Date of Despatch

W L Ross Capt.
(W. L. Ross) Signature of Commander
3 Aust Div (AIF)

a.w. 10m bks 10/43

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form W.3008
(Adapted) (Page 1)
(Revised Jan., 1943)
45/44 (Serial No.)

FIELD RETURN OF OFFICERS

At 0600 Hrs. Saturday 4 / 11 / 1944. HQ RAA 3 Aust Div (AIF) (Unit)

W.E. II/3/3. OFFRS. 6 O.R's. 26 + OFFRS. 1 O.R's. 3 ATT. BY W.E.

PART A.—POSTED STRENGTH, SURPLUS OR REINFORCEMENTS REQUIRED.

1	2	3	4	5	6	7	8	9	10
W.E. EXCLUDING ATTACHED.				DETAIL.	ATTACHED ALLOWED BY W.E.				
WE Rein'fts Required.	Deficient W.E.	Surplus to W.E.	Posted Strength.		Arm or Corps. WE	Posted Strength.	Surplus to W.E.	Deficient W.E.	Rein'fts Required.
1 -	-	-	1	Grigadier * *					
				Lieut.-Colonels					
2 -	1	-	1	Majors					
2 -	-	1	3	Captains					
1 -	-	-	1	Lieutenants 1	AA Amen Ser	1	-	-	-
				Quarter-masters					
				A.A.N.S. and A.A.M.W.S. Offrs.					
				Civilians Counting as Offrs.					
6 -	1	1	6	1		1	-	-	-

Analysis of Part A to be shown here by ALL units. Only units notified in para. 10 of instructions for compilation of form will complete Part E(1) & E(2).

DETAIL		A.I.F.	C.M.F.	A.W.A.S.	A.A.N.S.	A.A.M.W.S.	CIVIL.	R.A.N.	R.A.A.F.	* *	TOTAL.
A.		A 7									7
E.(1)											
E.(2)											

* Insert detail of higher ranks as necessary.
* * Personnel belonging to a category not provided for in the analysis will be shown in this Col. Particulars will be shown, e.g., 20 U.K. Forces; 10 N.Z. Forces.

PART B.—PARTICULARS OF OFFICERS JOINED OR QUITTED DURING WEEK.

OFFICERS JOINED DURING WEEK

Army No.	Rank.	Name and Initials.	Unit From.	Date.	CAUSE.

OFFICERS QUITTED DURING WEEK.

Army No.	Rank.	Name and Initials.	Unit To.	Date.	CAUSE.

PART C.—DESCRIPTION OF OFFICERS WHOSE RETURN TO .....(Unit) IS PARTICULARLY REQUESTED. ...../...../194.....

Army No.	Rank.	Name and Initials.	REMARKS (e.g., present whereabouts if known).

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

HQ RAA 3 Aust Div (AIF) *Unit*

appx 23

Army Form W.3008
(Adapted) (Page 2)
(Revised Jan., 1943)
45/44 (Serial No.)

PART D.—NOMINAL ROLL OF OFFICERS ON POSTED STRENGTH

At 0600 Hrs. Saturday 4/11/1944 (Total to agree with Columns 4 and 7 of Part A.)

1 Substantive Rank and Higher Temporary Rank if Held.	2 Army Number.	3 Surname.	4 Initials.	5 Posting.	6 Whether present with Unit (insert Yes or No)	7 If not present with Unit, state how employed.	8 Date of Detachment.
Col T/Brig	NX 4	KLEIN	B E	CRA	No	Adv HQ	1/11/44
Capt T/Maj	WX 103	BROWNE	G D	BMRA	No	Adv HQ	23/10/44
Capt	TX 2064	LORD	J	BM(L)	No	Sch of Air Co-op	6/9/44
T/Capt	VX 14657	ROSS	W.L.	SCRA	No	Adv HQ	26/10/44
Capt.	VX 17087	DAVIS	G B	SC(L)	NO	Rear HQ	27/10/44
Lt	VX102762	SCOTT	F W W	IORA	Yes		
Lt	NX 27066	LOWRIE	F J I	Amen Offr	No	Adv HQ	27/10/44

PART E.—NOMINAL ROLL OF OFFICERS ATTACHED FROM OTHER UNITS.

Substantive Rank and Higher Temporary Rank, if Held.	Army Number.	Name and Initials.	Unit.	Date of Attachment.	Nature of Attachment.
Maj	NX 12379	STEVENSON WRD	2 Aust Mtn Bty	3/10/44	Att for Staff Duties
Lt	NX 115250	KANDY RF	Sigs 3 Aust Div	27/9/44	Att for duty as Arty Sig Offr

4/11/44
Date of Despatch

Signature of Commander
Capt.
(W.L.ROSS) SCRA 3 Aust Div (AIF)

a.w. 10m bks 10/43

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form W.3009 (*Adapted*)
(Page 1)
(Revised Jan., 1943.)

FIELD RETURN OF OTHER RANKS

...../...../.....(Serial No.)

At 0600 Hrs. Saturday...../...../194.... .....(Unit)

W.E...../...../..... OFFRS.....O.R's.....+ OFFRS.....O.R's.....ATT. BY W.E.

Part A. Posted Strength, Surplus or Reinforcements Required.

1	2	3	4	5	6	7	8	9	10
W.E. EXCLUDING ATTACHED.				DETAIL.	ATTACHED ALLOWED BY W.E.				
Reinfts. Required.	Deficient W.E.	Surplus to W.E.	Posted Strength.		Arm or Corps.	Posted Strength.	Surplus to W.E.	Deficient W.E.	Reinfts. Required.
				W.Os. Class I.					
				W.Os. Class II.					
				Squadron or Company Quartermaster Sgts.					
				Staff Sergeants					
				Sergeants					
				Corporals					
				Troopers, Privates, etc.					
				Civilians counting as O.R.					
				Totals of cols. marked * should agree with details shown in Part E on Page 2.		*			*

Analysis of Part A to be shown here by ALL units. Only units notified in para. 7 of instructions for compilation of this return will complete analysis of Part B(1) and B(2).

* * Personnel belonging to a category not provided for in the analysis will be shown in this Col Particulars will be shown, e.g., 20 U.K. Forces, 10 N.Z. Forces.

Detail		C.M.F.								
	A.I.F.	Under 19 Years.	19 Years and over.	A.W.A.S.	A.A.M.W.S.	CIVIL	R.A.N.	R.A.A.F.	* *	TOTAL.
A										
B(1)										
B(2)										

Part B. Other Ranks Attached from Other Units.

Number of O.Rs.	Unit to which they belong	Number of O.Rs.	Unit to which they belong

Part C. Other Ranks Included in Part A Detached to Other Units.

Number of O.Rs.	Unit to which detached.	Number of O.Rs.	Unit to which detached.

Part D. Description of Other Ranks Whose Return To.....(Unit) is Particularly Requested. ...../...../194.....

Army No	Rank.	Name and Initials.	REMARKS (e.g., present whereabouts if known).

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

.....Unit

Army Form W.3009
(Adapted) (Page 2)
(Revised Jan., 1943)

...../.....Serial No.

PART E. Detail of Present Strength and Reinforcements required as shown in Part A of Army Form W.3009 at 0600 Hours Saturday / /194 .

Details of Tradesmen. GROUP I.	W.E.	Posted Strength.	Reints. Required.	Details of Tradesmen. GROUP I. (cont.)	W.E.	Posted Strength.	Reints. Required.	Details of Tradesmen. GROUP II. (cont.)	W.E.	Posted Strength.	Reints. Required.	Details of Tradesmen. GROUP III. (cont.)	W.E.	Posted Strength.	Reints. Required.
Ammunition Examiners				Surveyors, Engineering				Operating Room Assts.				G.P.O. Assistants			
Armament Artificer Fitter				Surveyors, R.A.A.				Operator, Keyboard				Hammermen			
Armament Artificer Fitter (Electrical)				Surveyors, Topographical				Operator, Line				Leather Stitchers			
Armament Artificer Fitter (M.V.)				Surveyors, Trigonometrical				Operator, Signal				Orderlies, Nursing			
Armament Artificer Fitter (A.F.V.)				Toolmakers				Operator, Switchboard				Orderlies, Nursing Menial			
Armament Artificer Instrument				Turners				Operator, Wireless				Plate Layers			
Armament Artificer Radio				Watchmakers				Opticians				Rangetakers			
Armament Artificer Signals				Welders				Painters				Rivetters			
Armament Artificer Wireless								Panel Beaters				Roughriders			
Artificer, Artillery								Photographer, Dry Plate				Saddlers			
Artificer, Engine								Predictor Numbers				Saddletree makers			
Blacksmiths								Printers				Shoemaker and Boot Repairer			
Bricklayers								Radiographers				Stevedores			
Computors								Riggers				Stokers, Staty. Engine			
Cooks, Hospital				GROUP II.				Sawyers				Storemen, Technical			
Coppersmiths				Armourers				Signallers				Tailors			
Dispensers				Axemen				Signwriters				Textile Refitters			
Draughtsmen				Bakers				Telescope Identfn. Numbers				Tinsmiths			
Draughtsmen (Architectural)				Bty. Comd's. Asst.				Well Borers				Vulcanizers			
Draughtsmen (Engineering)				Boilermakers				Wheelers				Wagon Erectors			
Draughtsmen (Mechanical)				Carpenters				Winchman				Whitesmiths			
Draughtsmen (Topographical)				Carpenters and Joiners				Wireman							
Electricians				Cooks				Woodturners							
Electricians (M.V.)				Dental Mechanics											
Electricians (Signals)				Driver-Mech. (Eng. and Med.)											
Fitters				Driver-Operator											
Fitters (Cycle)				Drainers											
Fitters (Electrical)				Electricians											
Fitters (Gun)				Electricians (Engineers)											
Fitters (Instrument)				Fire Control Operators				GROUP III.				DETAILS OF NON-TRADESMEN.			
Fitters (M.V.)				Gun Operator				Battery Surveyors							
Fitters, Railway Signal				Hatchman				Butchers							
Fitters, Signals				Height Taker				Clerks							
Grinder, Precision				Helio Operator				Clerks, Supply							
Mechanics, Instrument				Instrument Operator				Clerks, Technical							
Mechanics, Instrument (Signals)				Intelligence Duties				Coach Trimmers							
Mechanics, Instrument (Surgical)				Joiners				Concretors							
Mechanics, Radio				Lineman				Cooks							
Mechanics, Typewriter				Lineman, Signals				Dental Clerk Orderlies							
Mechanics, Wireless				Lithographers				Despatch Riders				ATTACHED BY W.E.			
Millwrights				Machinists, Metal				Draughtsmen, Signals							
Operators, Excavator				Machinists, Wood				Drivers, H.T.							
Pattern Maker				Masons				Driver Mechanics							
Pharmacist				Masseurs				Driver Tptn. Plant							
Photographer, Wet Plate				Mechanics, M.T.				Engine Hands. I.C.							
Photowriter				Miners				Equipment Repairers							
Plumber				Moulders				Farriers							
Saw Doctors				Nurses, Trained				Fitters' Mates							
Surveyors				Observation Post Assts.				Gun Layers							
CARRIED FORWARD				CARRIED FORWARD				CARRIED FORWARD				Totals of columns marked * to agree with columns 4 and 7, and 1 and 10 of Part A. respectively.		*	*

NOTES.—(a) If rank other than private is involved give details on back.
(b) Authorised trades or specialists not included in list will be added as required in spaces provided.
(c) Where A.W.A.S. and/or A.A.M.W.S. personnel are desired show details on back.
(d) Where replacement not desired note accordingly on return by insertion of N.R. in col. "Reints. Required."
(e) Where any request or notation is made on back of form, the words "See Back" should be written in one of the blank spaces on this page.

4 Nov 44

Date of Despatch

Signature of Commander

L.H.Q. Press—411—8/43—312m.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form W.3009
(Adapted) (Page 2)
(Revised Jan., 1943)

Serial No.

Unit

PART E. Detail of Present Strength and Reinforcements required as shown in Part A of Army Form W.3009 at 0600 Hours Saturday /194 .

Details of Tradesmen. GROUP I.	Details of Tradesmen. GROUP I. (cont.)	Details of Tradesmen. GROUP II. (cont.)	Details of Tradesmen. GROUP II. (cont.)	Details of Tradesmen. GROUP III. (cont.)
Ammunition Examiners	Surveyors, Engineering	Operating Room Assts.	G.P.O. Assistants	
Armament Artificer Fitter	Surveyors, S.A.A.	Operator, Keyboard	Hammermen	
Armament Artificer Fitter (Electrical)	Surveyors, Topographical	Operator, Line	Leather Stitchers	
Armament Artificer Fitter (M.V.)	Surveyors, Trigonometrical	Operator, Signal	Orderlies, Nursing	
Armament Artificer Fitter (A.F.V.)	Toolmakers	Operator, Switchboard	Orderlies, Nursing Mental	
Armament Artificer Instrument	Turners	Operator, Wireless	Plate Layers	
Armament Artificer Radio	Watchmakers	Opticians	Rangetakers	
Armament Artificer Signals	Welders	Painters	Rivetters	
Armament Artificer Wireless		Panel Beaters	Roughriders	
Artificer, Artillery		Photographer, Dry Plate	Saddlers	
Artificer, Engine		Predictor Numbers	Saddletree makers	
Blacksmiths		Printers	Shoemaker and Boot Repairer	
Bricklayers		Radiographers	Stevedores	
Compilers		Riggers	Stokers, Staty. Engine	
Cooks, Hospital	GROUP II.	Sawyers	Storemen, Technical	
Coppersmiths	Armourers	Signallers	Tailors	
Dispensers	Axemen	Signwriters	Textile Rollers	
Draughtsmen	Bakers	Telescope Identifn. Numbers	Tinsmiths	
Draughtsmen (Architectural)	Bty. Comd's. Asst.	Well Borers	Vulcanizers	
Draughtsmen (Engineering)	Boilermakers	Wheelers	Wagon Erectors	
Draughtsmen (Mechanical)	Carpenters	Winchman	Whitesmiths	
Draughtsmen (Topographical)	Carpenters and Joiners	Wireman		
Electricians	Cooks	Woodturners		
Electricians (M.V.)	Dental Mechanics			
Electricians (Signals)	Driver-Mech. (Eng. and Med.)			
Fitters	Driver-Operator			
Fitters (Cycle)	Drainers			
Fitters (Electrical)	Electricians			
Fitters (Gun)	Electricians (Engineers)			
Fitters (Instrument)	Fire Control Operators	GROUP III.	DETAILS OF NON-TRADESMEN	
Fitters (M.V.)	Gun Operator	Battery Surveyors		
Fitters, Railway Signal	Hatchman	Butchers		
Fitters, Signals	Height Taker	Clerks		
Grinder, Precision	Helio Operator	Clerks, Supply		
Mechanics, Instrument	Instrument Operator	Clerks, Technical		
Mechanics, Instrument (Signals)	Intelligence Duties	Coach Trimmers		
Mechanics, Instrument (Surgical)	Joiners	Concretors		
Mechanics, Radio	Lineman	Cooks		
Mechanics, Typewriter	Lineman, Signals	Dental Clerk Orderlies		
Mechanics, Wireless	Lithographers	Despatch Riders	ATTACHED BY W.R.	
Millwrights	Machinists, Metal	Draughtsmen, Signals		
Operators, Excavator	Machinists, Wood	Drivers, M.T.		
Pattern Maker	Masons	Driver Mechanics		
Pharmacist	Masseurs	Driver Tptn. Plant		
Photographer, Wet Plate	Mechanics, M.T.	Engine Hands, I.C.		
Photowriter	Mechanics	Equipment Repairers		
Plumber	Moulders	Farriers		
Saw Doctors	Nurses, Trained	Fitters' Mates		
Surveyors	Observation Post Assts.	Gun Layers		
CARRIED FORWARD	CARRIED FORWARD	CARRIED FORWARD	Totals of columns marked * to agree with columns 4 and 7 and 1 and 10 of Part A, respectively.	#

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(d) Where replacement not desired note accordingly on return by insertion of N.R. in col. "Reinfs. Required."
(e) Where any request or notation is made on back of form, the words "See Back" should be written in one of the blank spaces on this page.

Date of Despatch

Signature of Commander

L.H.G. Press—411—8/43—512m.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

Army Form W.3009 (*Adapted*)
(Page 1)
(Revised Jan., 1943.)
45/44 (Serial No.)

FIELD RETURN OF OTHER RANKS

At 0600 Hrs. Saturday 4/11/1944. Hq RAA 3 Aust Div (Unit)

W.E. 11/3/3. OFFRS. 6 O.R's. 26 + OFFRS. 1 O.R's. 3 ATT. BY W.E.

Part A. Posted Strength, Surplus or Reinforcements Required.

1	2	3	4	5	6	7	8	9	10
W.E. EXCLUDING ATTACHED.				DETAIL.	ATTACHED ALLOWED BY W.E.				
WE Reinfts. Required.	Deficient W.E.	Surplus to W.E.	Posted Strength.	WE	Arm or Corps.	Posted Strength.	Surplus to W.E.	Deficient W.E.	Reinfts. Required.
1 -	-	-	1	W.Os. Class I.					
- -	-	1	1	W.Os. Class II.					
				Squadron or Company Quartermaster Sgts.					
				Staff Sergeants					
3 NR	2	-	1	Sergeants					
3 -	-	1	4	Corporals 1	AA Amen	-	-	1	NR
19 2	2	1	18	Troopers, Privates, etc. 2	AACC	2	-	-	-
				Civilians counting as ~~O.R.~~	AA Amen	1	1	-	-
26 2 *	4	3	25 *	Totals of cols. marked * should agree with details shown in Part E on Page 2. 3		3 *	1	1	- *

Analysis of Part A to be shown here by ALL units. Only units notified in para. 7 of instructions for compilation of this return will complete analysis of Part B(1) and B(2).

* * Personnel belonging to a category not provided for in the analysis will be shown in this Col Particulars will be shown, e.g., 20 U.K. Forces, 10 N.Z. Forces.

Detail		A.I.F.	C.M.F. Under 19 Years.	C.M.F. 19 Years and over.	A.W.A.S.	A.A.M.W.S.	CIVIL	R.A.N.	R.A.A.F.	* *	TOTAL.
A								[redacted]	[redacted]		
B(1)											
B(2)							[redacted]				

Part B. Other Ranks Attached from Other Units.

Number of O.Rs.	Unit to which they belong	Number of O.Rs.	Unit to which they belong
1	2 Aust Mtn Bty		
1	AAES 3 Aust Div		
3	MMF (RAAF)		

Part C. Other Ranks Included in Part A Detached to Other Units.

Number of O.Rs.	Unit to which detached.	Number of O.Rs.	Unit to which detached.
1	HQ 3 Aust Div		

Part D. Description of Other Ranks Whose Return To.....(Unit) is Particularly Requested. ...../...../194.....

Army No	Rank.	Name and Initials.	REMARKS (e.g., present whereabouts if known).

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

HQ RAA 3 Aust Div (AIF) *Unit*

Army Form W.3009
(Adapted) (Page 2)
(Revised Jan., 1943)
45/44 Serial No.

PART E. Detail of Present Strength and Reinforcements required as shown in Part A of Army Form W.3009 at 0600 Hours Saturday 4 / 11/1944 .

Details of Tradesmen. GROUP I.	W.E.	Posted Strength.	Reints. Required.	Details of Tradesmen. GROUP I. (cont.)	W.E.	Posted Strength.	Reints. Required.	Details of Tradesmen. GROUP II. (cont.)	W.E.	Posted Strength.	Reints. Required.	Details of Tradesmen. GROUP III. (cont.)	W.E.	Posted Strength.	Reints. Required.
Ammunition Examiners				Surveyors, Engineering				Operating Room Assts.				G.P.O. Assistants			
Armament Artificer Fitter				Surveyors, R.A.A.				Operator, Keyboard				Hammermen			
Armament Artificer Fitter (Electrical)				Surveyors, Topographical				Operator, Line				Leather Stitchers			
Armament Artificer Fitter (M.V.)				Surveyors, Trigonometrical				Operator, Signal				Orderlies, Nursing			
Armament Artificer Fitter (A.F.V.)				Toolmakers				Operator, Switchboard				Orderlies, Nursing Mental			
Armament Artificer Instrument				Turners				Operator, Wireless				Plate Layers			
Armament Artificer Radio				Watchmakers				Opticians				Rangetakers			
Armament Artificer Signals				Welders				Painters				Riveters			
Armament Artificer Wireless								Panel Beaters				Roughriders			
Artificer, Artillery								Photographer, Dry Plate				Saddlers			
Artificer, Engine								Predictor Numbers				Saddletree makers			
Blacksmiths								Printers				Shoemaker and Boot Repairer			
Bricklayers								Radiographers				Stevedores			
Computors								Riggers				Stokers, Staty. Engine			
Cooks, Hospital				GROUP II.				Sawyers				Storemen, Technical			
Coppersmiths				Armourers				Signallers	2	1	1	Tailors			
Dispensers				Axemen				Signwriters				Textile Refitters			
Draughtsmen				Bakers				Telescope Identfn. Numbers				Tinsmiths			
Draughtsmen (Architectural)				Bty. Comd's. Asst.				Well Borers				Vulcanizers			
Draughtsmen (Engineering)				Boilermakers				Wheelers				Wagon Erectors			
Draughtsmen (Mechanical)				Carpenters				Winchman				Whitesmiths			
Draughtsmen (Topographical)				Carpenters and Joiners				Wireman				Non Tradesmen			
Electricians				Cooks				Woodturners			WO I	Clerk	1	1	-
Electricians (M.V.)				Dental Mechanics							WO II	"	-	1	-
Electricians (Signals)				Driver-Mech. (Eng. and Med.)							Sjt	"	2	1	NR
Fitters				Driver-Operator							Bdr	"	2	2	-
Fitters (Cycle)				Drainers							Gnr	"	-	1	-
Fitters (Electrical)				Electricians					Sjt			Draughtsman	1	-	NR
Fitters (Gun)				Electricians (Engineers)					Bdr		"		-	1	-
Fitters (Instrument)				Fire Control Operators				GROUP III.				DETAILS OF NON-TRADESMEN.			
Fitters (M.V.)				Gun Operator				Battery Surveyors				Bdr General Duty	1	1	-
Fitters, Railway Signal				Hatchman				Butchers				Dvrs MT	5	5	-
Fitters, Signals				Height Taker				Clerks	1	1	-	MC ORD	3	3	-
Grinder, Precision				Helio Operator				Clerks, Supply				Hygiene	1	1	-
Mechanics, Instrument				Instrument Operator				Clerks, Technical				Batmen	7	6	1
Mechanics, Instrument (Signals)				Intelligence Duties				Coach Trimmers							
Mechanics, Instrument (Surgical)				Joiners				Concretors							
Mechanics, Radio				Lineman				Cooks							
Mechanics, Typewriter				Lineman, Signals				Dental Clerk Orderlies							
Mechanics, Wireless				Lithographers				Despatch Riders				ATTACHED BY W.E.			
Millwrights				Machinists, Metal				Draughtsmen, Signals			AA	Amen Sjt	1	-	NR
Operators, Excavator				Machinists, Wood				Drivers, H.T.			AA	Amen Pte	-	1	-
Pattern Maker				Masons				Driver Mechanics				AACC Ptes	2	2	-
Pharmacist				Masseurs				Driver Tptn. Plant							
Photographer, Wet Plate				Mechanics, M.T.				Engine Hands, I.C.							
Photowriter				Miners				Equipment Repairers							
Plumber				Moulders				Farriers							
Saw Doctors				Nurses, Trained				Fitters' Mates							
Surveyors				Observation Post Assts.				Gun Layers							
CARRIED FORWARD				CARRIED FORWARD				CARRIED FORWARD	3	2	1	Totals of columns marked * to agree with columns 4 and 7, and 1 and 10 of Part A. respectively.	29	*28	*2

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4 Nov 44
Date of Despatch

Capt.
(W.L.ROSS) SCRA 3 Aust Div (AIF)
Signature of Commander

L.H.Q. Press—411—8/43—312m.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

IMPRESSIONS OF LIFE AT WARWIN

The surroundings of our camp site at Warwin were typical of New Guinea. High and rugged mountain ridges formed the background and encircled the horizon; to the north west the justly named Sawteeth Mountains with their jagged peaks were a prominent feature of the skyline.

In the distance the Markham River could be seen flowing through the long narrow valley, which though studded with intermittent patches of jungle, was in the main savanah country. From our location the scene up the valley was strongly reminiscent of English parklands.

The climate was considerably pleasanter than that of the coast; though very hot at times, it was a dry heat. The afternoons were cooler, as a strong wind invariably sprang up after lunch, though the benefits were almost nullified by the dust which accompanied it and the exasperation caused by its caprices and vagaries. Rain fell rarely and then mostly at night.

We were fortunate in having a pleasant tree-lined stream burbling past at the rear of the tent lines; washing here presented no problem, as it had done in less favoured areas.

Our training was rather more interesting than normally carried out, inasmuch that infantry specialists were detailed as instructors in the art of jungle warfare, demonstrating practically the use of booby traps, Jap surprise tactics, and so on. The time alloted for the training was too short to be very effective, but all learnt much which may prove invaluable in certain contingencies.

Instruction of an elementary nature was given on the 75mm. mountain gun, culminating in the squads firing a few rounds. A valuable lesson was taught regarding the deceptive nature of hilly counttry as the estimates for the range varied by 6000x. The final ranges shot at vindicated the judgement of such persons as the writer, who had learnt from bitter personal experience and the sweat of their brows what dead ground and false crests mean.

Daily shooting practise was a feature of the syllabus, personnel being familiarized with all arms, and keen competition took place to produce the highest scores. It may be of interest to note that this was the first occasion upon which the writers rifle had been officially fired since issued 10 months before.

Despite the perpetual daily fare of Bully and M&V, the standard of health was high and morale was boosted by anticipation of forthcoming action and frequent games of cricket and softball. Entertainment was provided

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

in the form of pictures twice weekly at 4 Aust Fd Regt camp transport being available. Owing to the rough nature of the track riding in jeep or trailer differed only from walking in that it was a slightly faster form of locomotion, and provided infinately more exercise.

In conclusion, the outstanding impressions of Warwin were the sound of running water which will always recall New Guinea to my mind; the vivid sunsets painting the sky a riotous glory of colour; awaking to the drone of the Douglas' as they passed on their way northwards and their red lights as they made their way home in the dusk; the whining hum of Lightnings and Thunderbolts as they played "follow-my-leader" above the clouds, and the billowing tents flapping wildly in the afternoons breeze.

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

BY SHIP TO BOUGAINVILLE

In the days of peace one heard of the joys of sea travel among the islands of the South Pacific, and envied those fortunate enough to take a cruise.

Bearing this in mind, it was with some anticipation of a pleasant voyage that I with my unit embarked on the USAT LINDLEY M GARRISON at LAE on the afternoon of 1 Nov 44.

After an early Reveille, which seems to be a habit peculiar to the Army, we set off for the embarkation point early in the afternoon. The more fortunate were taken to the ship by "Ducks", the remainder including myself had to negotiate some narrow corners, climb across a few odd craft and finally up a narrow gangway to board our Luxury Liner. New Guinea was evidently sorry to see us go and shed copious tears during the embarkation.

Then we were allotted quarters, these comprising of tiers of steel bunks completely filling the hold except for a narrow passage way. Some slight misunderstanding between units caused a certain amount of argument for the best bunks, and the spectacle of a few homeless individuals wandering around in a hopeless fashion until finally shepherded to vacant places.

Late in the afternoon we sailed and without regrets we watched the coastline of New Guinea disappear into the haze, fervently hoping we were seeing it for the last time.

We were at sea for three practically uneventful days during which we experienced all the comforts usual to troopships. There were two meals each day, morning and afternoon, mostly comprising that well known army delicacy - M & V.

It rained on and off throughout the trip, and while those sleeping on deck battled with the wind and rain, the scene below was reminiscent of the bad old days of Black Birding. The hold was filled with naked, sweating bodies, the air rank with Chloride of Lime.

The most striking incident of the voyage occurred the third day out. The ship's warning bell brought up most of the troops to the deck in time to see all guns on the ship manned and a Mine wallowing in the swell close to the ship. Several rounds were fired by the stern gun, but owing to the poor visibility were ineffective. The incident provided a fresh topic of conversation amongst the troops and cured quite a few cases of Mal de Mer.

Late the same afternoon we sighted land and later dropped anchor in what we now know as Empress Augusta Bay and we looked upon the scene of our future adventures. Great was our disappointment when we were told we would not disembark until the following day.

The next morning Reveille was early as usual and after a final issue of M & V, we packed our kits, climbed down the side of the ship by Landing Nets and were taken ashore by LST.

W.K. Adams WO2

AUSTRALIAN WAR MEMORIAL AWM2019.366.69

MY FIRST IMPRESSIONS OF BOUGAINVILLE

I took a position on the port side of the Liberty Ship as it rounded TOROKINA Island, and gazed passed the bow curious to see what our new home was like. The misty rain made it difficult to obtain a very clear impression but as we drew closer to the shore the blur untangled itself - three sleek Corvettes cruising off the Northern tip of what I now know as Empress Augusta Bay blended admirably with the numerous cluster of other vessels of all shapes and sizes grouped together as though in complete defiance of the Jap bombers whose presence I had felt on past occasions, giving one a sense of security and bearing out the mastery of the Navy and Air Force.

After considerable delay my unit came ashore in the second batch of barges and the first thing which attracted my attention was the black sandy soil of the beach, quite different to that of New Guinea. All of us were wet to the skin as it had been raining heavily for some time but I was keen to see a little of the country as we embarked by truck for our final destination - camp and a warm bed.

As the truck wended its weary way the 7 square miles the Allies held appeared to me to be a controlled network of roads which were excellent to those we had left behind at WAWIN, installations, camps etc wedged in the usual tropical setting so unlike the depictions of Hollywood - so this was BOUGAINVILLE - to be more precise TOROKINA.

We passed the American Cemetery, rows and rows of those that had fallen in neat military lines with white crosses over the graves did not brighten the already bleak morning - ones thoughts wandered to the hearts that were buried alongside those graves and recalled Darmien Parer's outburst in his newsreel "SALAMAUA" "How pitifully small have been your sacrifices compared to these".

We finally arrived at what was to be our camp site though by the look of it one would hardly thing so - the smell of rotting vegetation filled the air, mud and slush everywhere, but we had long be taught not to expect much better at this stage - so this was to be our home - Home was never like this, I hope?

The jungle undergrowth and rain forrests were much in evidence but conspicuous by its abscence was the tall Kunai found in numerous parts of PAPUA and which I had grown to hate.

I soon established a firm friendship with several of the Americans in the TOROKINA Area and couldn't help but notice what a fine bunch they were in comparison with the base troops that had infested the shores of our Homeland - everywhere one went a cordial welcome was extended.

Summing up my first impressions I would say they were in complete agreement with those of my first impressions of NEW GUINEA -------

"Why the hell didn't they give it to the Japs".

G Wickham
.....L/Sgt
QX 45185

HQ RAA 3 Aust Div (AIF)

AUSTRALIAN WAR MEMORIAL AWM2019.366.69