

5/3/1/43

JANUARY 1945

AUSTRALIAN WAR MEMORIAL
ACCESS STATUS
OPEN

CHIEF ENGINEER BRANCH
FIRST ARMY

15 FEB. 1945

WAR DIARY or INTELLIGENCE SUMMARY

(Erase heading not required.)

Army Form C. 2118.
(adapted)Unit CE First Aust Army Date and Time.—From 1 Jan 45 To 31 Jan 45

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
LAE	Mon 1st		Return: Offr Postings as at 15 Jan 45	See Appx A
	Tue 2nd		Capt L. FRASER (SORE Comms) returned from FINSCHHAFEN, after duties in relation to airstrip under construction	✓
	Wed 3rd		Maj D. MACINTOSH (E2 Mech Egmt) left by small craft for ARAWA and JACQUINOT BAY to inspect American eqpt at ARAWA with a view to possible take over, and to inspect operation of eqpt at JACQUINOT BAY	✓
	Thu 4th		Brig A.G. TORR emplaned for LHQ Weekly works resume issued	✓ See Appx B
	Fri 5th		First Aust Army CE Tech Instr No 12 (CEA 1735) issued. Subject: Bridging returns	✓ See Appx C
	Sat 6th		Lt R.J. SEBASTIAN (E & M Stores) returned from RAE TC WAGGA, on completion of duties in connection with bomb disposal First Aust Army CE Tech Instr No 13 (CEA 1764) issued. Subject: Weekly Tech Summary - Field Formations	✓ See Appx D
	Sun 7th		First Aust Army CE Intelligence Summary No 3 issued (CEA 1760)	✓ See Appx E
	Mon 8th		Maj L. CAWSEY left for leave & reposting as OC 10 AA & Frt Coy	✓
	Tue 9th			✓
	Wed 10th		First Aust Army CE Tech Instr No 2 (Revised to 10 Jan 45) issued. Subject: RAE Base & Fd Formations - Relationship and duties	✓ See Appx F

L.

By Authority: L. F. JONNROS, Commonwealth Government Printer, Canberra.

WAR DIARY or INTELLIGENCE SUMMARY

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(adapted)

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LAE	Thu 11		Weekly Works Resume issued	See Appx G
	Fri 12		Maj F. STEVENS (E2 Ops) left for AITAPE on tour of inspection	
	Sat 13			
	Sun 14		Capt G. CARSON (E2 Works) left for ARL	
	Mon 15			
	Tue 16			
	Wed 17		Maj D. MACINTOSH (E2 Mech Egt) left for AITAPE for investigations relating to Mech Egt. Maj F. STEVENS (E2 Ops) returned from AITAPE after visiting Base and Forward areas	
	Thu 18		Weekly Works Resume issued Capt J.H. STANDISH (E3 Water) dep for AITAPE in connection with port working facilities.	See Appx H
	Fri 19		Maj F.K. HELSHAM reported for duty as SORE II (Stores)	
	Sat 20		IORE Capt J. ADAMS dep for ARL	
	Sun 21		Maj D. MACINTOSH (E2 Mech Egt) returned from AITAPE after investigating eqpt requirements and maint, with particular ref to Mech Egt and Bridging Egt. Discussion carried out with CE ME 6 Aust Div and DADME 3 Aust Base Sub Area regarding system of evacuation to wksps and also spare parts procurement.	

WAR DIARY or INTELLIGENCE SUMMARY

(Erase heading not required.)

Army Form C. 2118.
(adapted)

Unit CE First Aust Army

Date and Time.—From 1 Jan 45 To 31 Jan 45

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
LAE	Mon 22		Newly installed 288 KVA Ryston Generating Set came into operation for lighting and power in LAE area. Capt J.H. STANDISH (E3 Water) returned from AITAPE, after investigating difficulties in offloading stores from LCMs and LCTs with particular reference to improvement of mouth of RAIHU RIVER for LCMs.	V
	Tue 23		Capt L. FRASER (SORE Comms) visited JACQUINOT BAY in connection with airfield construction.	V
	Wed 24			V
	Thu 25		Weekly Works Resume issued	V See Appx J
	Fri 26		CE Brig A.G. TORR returned from visit to mainland which included conferences at LHQ. Capt V. TADGELL (E3 Ops) returned to HQ First Aust Army on completion of period of attachment to CE, 2 Aust Corps as relieving IORE.	V
	Sat 27			V
	Sun 28			V
	Mon 29			V
	Tue 30		Col F. IRWIN DCE left for AITAPE on routine inspection of works in area	V
	Wed 31			V

W. J. J. J.

CONFIDENTIAL

HQ First Aust Army (AIF)
4 Jan 45
CEA 1736

Subject: FIRST AUST ARMY ENGR WEEKLY RESUME

CE 2 Aust Corps (2)
CRE 5 Aust Div
CRE 6 Aust Div
5 Aust CRE (Wks)
11 Aust CRE (Wks)
48 Aust DCRE (Wks)
54 Aust DCRE (Wks)
A/DCRE Area Comd MADANG
A/DCRE 6 Aust Base Sub Area
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Gp
CRE 3 Aust Water Tpt Gp
CRE 3 Aust Dicks Gp
CE First Aust Army.

Copies to:

E in C (2)
DE in C (2)
SCORE Fwd Echelon LHQ
Aust LO to CE, GHQ Det APO 500
File (2)
War Diary (10)
Spares

1. Attached hereto is summary of engr activities to
4 Jan 45, as follows:-

Part I	-	Operational
Part II	-	Works Resume
Part III	-	Stores Position

2. Ack

Blackmore 14/6/1
Brig.
CE First Aust Army

PART I - OPERATIONS

ENGINEER ACTIVITIES -- FIELD FORMATIONS

1. 2 Aust Corps

Field companies of 3 Aust Div have been engaged in road and bridge construction along the south coast towards JABA R. An advanced ldg ground suitable for very light planes has been cleared south of, and adjacent to, the JABA R.

2. 5 Aust Div

The road between BONDI BEACH and WUNUNG R is now complete and the WUNUNG R bridge is open to jeep traffic. Work has continued on other roads and bridges in the area. An airstrip suitable for Piper Cub type planes is under construction at CUTARP PLANTATION.

3. 6 Aust Div

Repairs have had to be effected to a number of bridges on the coastal road due to floods and it has been necessary to construct anti scour devices on the bridges. Work on the improvement and maintenance of the coastal road and track continues and an all weather road now extends as far as BABIANG. The track from BABIANG to DANLIAP R is passable for 3-ton trucks, and jeeps to NATAPAU.

ENGINEER EQUIPMENT

4. Mech Eqpt.

(a) During Dec the following machines were recommended for return to mainland and orders have been placed for their replacement -

4 Autopatrols, 10 D4 type tractors, 3 D6 tractors,
4 D7 type tractors, 1 D8 tractor.

(b) 933 tons (M) of unserviceable or surplus plant was shipped to AUST.

670 tons (M) still remain to be shipped.

5. Br Eqpt

Further allocation of br eqpt has been made:

3 Aust Div	-	1 set FBE Mk III
5 Aust Div	-	48 assault and 6 recce boats
3 BSA (for 6 Aust Div)	-	1 set STEELE br
4 BSA (for 2 Aust Corps)	-	40 Bays KAB.

6. Inspections

Combined RAE and AEME inspections of eqpt in 4 BSA were made during the week.

Inspection of eqpt in 5 BSA now in progress.

MOVEMENT OF UNITS

7. The following movements of RAE units have been advised since 28 Dec:

AUST - LAE

Det 16 Aust Small Ships Coy arrd 26 Dec 44

AUST - AITAPE

Det 2/1 Aust Fd Coy arrd 27 Dec 44
Det 2/2 Aust Fd Coy "
Det 2/8 Aust Fd Coy "
Det 2/14 Aust Fd Coy "
Det 2/22 Aust Fd Pk Coy "

AUST - JACQUINOT BAY

Main body 4 Aust Fd Coy arrd 27 Dec 44
Det 53 Port Craft Coy "

AUST - TOROKINA

Det 11 Aust Fd Coy arrd 28 Dec 44
Det 16 Aust Fd Coy "
Det 13 Aust Small Ships Coy "
Adv Party 15 Aust Fd Coy depd 30 Dec 44
Main body 15 Aust Fd Coy depd 1 Jan 45

LAE - MADANG

Det 1 Aust Water Amb Convoy arrd 22 Dec 44

LAE - AITAPE

Det 1 Aust Water Amb Convoy arrd 31 Dec 44

MADANG - AITAPE

Det 7 Aust Docks Op Coy depd 30 Dec 44

EMIRAU - TOROKINA

3 Pl, 23 Aust Fd Coy arrd 30 Dec 44

73. *Thames* *new*
400 Brig.
CE First Aust Army.

WEEKLY RESUME BY CHIEF ENGINEER FIRST AUST ARMY

Part III - Weekly Progress of Engr Constr

(As At 29 Dec 44)

Page 1.

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE										E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80	90					
1	<u>MORESEY AREA</u> <u>Other Works</u> (1) Frt 5.25 CA/AA Bty Emplacements - Command Post - No 1 & 2 ER & Wksp - Day BOP - Elect Install - Accom Scale A (11) Sawmill operations LAE - LABU AREA (Ref Map LAE 1:25000)	18Oct 15Apr 17Apr 9May 17Apr 15Apr										10Jan 29Dec 20Jan 5 Jan 20Jan " " " "	10 AA & Frt " " " " " "			
2	<u>PORT FACILITIES</u> (1) Landing Craft Ramps MR 660390 (11) Small Ships Wharf Bridges Foot Suspension Bridge BUSU R C Installations (1) LAE Power Station E Hospitalisation (1) 2/7 AGH-Incidental Wks & Maintenance	12Aug ? ? 12Sep										? 30Jan ? ?	" " " "	20 Fd Coy " " 8 A Tps	Ceased temporarily floods Alterations nesessitated by/	
F	<u>Other Works</u> (1) HQ First Aust Army Accn (11) SALAMAU - AANS Rest Home (111) 83 Wing RAAF (iv) 16 Aust Detention Barracks (v) Sawmill operations (vi) Gravel output (vii) NG Tug School YALU	3 Oct 4 Nov ? ? Continuous Continuous										" 11Dec " 8 Jan 27Feb	20 Fd Coy 8 A Tps " 20 Fd Coy 2/2 Forestry	Continuous Additional minor wks in progress 136593 sup ft during week 1184 cu yds duting week		
3	<u>LABU AREA</u> Sawmill operations	Maintenance Only Continuous											8 Fd Coy "	4100 sup ft in week		
4	<u>TOROKINA</u> C Installations (1) BSD Ref Fig. 1/5000 cu ft 4/1800 cu ft (11) AOD 252,000 sq ft coverage	1Nov 8 Oct										? "	6 A Tps "	4/1800 c ft installed & in use 300x40 & 6/120x40 comp No pro- gress in period		

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE										E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
			0	10	20	30	40	50	60	70	80	90				
42	(iii) AAD 42,300 sq ft coverage	?											10Feb	2 Dec		22/60 x 18 completed
E	Hospitalisation															
	(i) 2/1 AGH	4 Nov											16Jan	"	5 A Tps 6 A Tps 10 Fd Coy	Can be occupied by mid Jan
F	(ii) 106 CCS	9 Nov											29Dec	"	5 A Tps	Completed
	Other Works															
	(i) AAC 1/300x45.2/90x45 Access Culvert	9 Oct											?	"	6 A Tps	Culvert Comp. Bldgs not started
	(ii) Base Sub Area - 17 Bldgs	13Oct											12Jan	"	"	
	(iii) LANGAU 8640 sq ft coverage	13Nov											?	"	"	
	(iv) 1 Mech Eqpt Wksp. 12600sq ft cover.	15Dec											?	"	"	Held u or materials
	(v) BIPOD 3360 sq ft coverage	25Dec											?	"	"	
	(vi) Sawmill operations														Unit Labour	
															2/2 Forestry	30,058 sup ft sawn in period
															5 A Tps	8,500 sup ft sawn in period
5	AITAPE AREA															
B	Rds & Brs - 6 Aust Div															
	Rd DRINIUMOR R to BABIENG	13Dec														
	Br PINI CK 296505 AITAPE EAST	7 Dec													2/8 Fd Coy	
	Br NIGIA R 220' span	7 Dec											21Jan	"	2/1 Fd Coy	Work stopped until WALGEMOL CK
	Br WALGEMOL	15Dec											10Jan	"	2/14 Fd Coy	Br piles are driven
	WHITTAKER Br															
	KORONAL Br															
	9 Brs. 1/350' 2/130' 1/120' 2/110' 2/100' 1/37'	20Dec											2 Jan	"	2/1 Fd Coy	Flood waters washed out 3 piles and pile frame displaced 15' downstream
	Base Area Wks												12Jan	"	"	
C	Installations														6 Div Fd Coys	
	(i) ASC 103,110 sq ft coverage	9 Nov														
	(ii) AAD 14,400 sq ft coverage	8 Nov											31Jan	"	1 Fd Sqn	
E	Hospitalisation												?		"	No work in past 2 weeks
	(i) 2/11 AGH	6 Nov											?		"	
F	Other Works															
	(i) Canteen Bulk Store & Bldgs	28Oct											?		"	Awaiting arrival stores
	(ii) Farm Coy Storage accomm	6 Nov											24Nov	"	Unit	No change since last report
	(iii) Refrigeration. 3/5000 cu ft	?											?	"	1 Fd Sqn	No change since last report
	(iv) Mobile Laundry	8 Nov											?			

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE										DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80	90	100			
5E	(v) 6 RSD Para Hut Store Shed 100'x45'	1 Dec											29 Dec	Unit Labour	
	(vi) Sawmill output												"	2/2 Forestry	29,240 sup ft in past 2 weeks
	(vii) Gravel output												"	2/3 Rly Constr	4,000 cu yds to date
	JACQUINOT BAY AREA - 5 Aust Base Sub Area														
A	Port Facilities														
	(a) Liberty Wharf	21 Dec													100% of piles in progress Pile driving to commence 30 Dec
B	Rds Bns Airfields														
	(a) Main Rds Base Area	28 Nov											14 Jan	2/3 Rly Constr	
	(b) Airdrome Rd	7 Dec											7 Dec	"	Completed
	(c) Clearing Strip	7 Dec											"	"	
	(d) Bridges Base Area	17 Nov											"	17 Fd Coy	
C	Installations														
	(a) Fd Bakery	4 Dec											26 Dec	"	Completed
	(b) ASD 58,500 sq ft coverage	10 Dec											"	"	4/100x45 store sheds completed
	(c) AOD 67,950 sq ft coverage	7 Dec											"	"	1/200x45 comp & 5/100x45 80% comp
	(d) AAD 11,520 " "	6 Dec											"	"	
	(e) AACs ?	9 Dec											"	"	1/150' x 45' completed
	(f) ANGAU S & S 7920 sq ft	9 Dec											"	Natives	
	(g) HQ 5 Base Sub Area 6/60' x 18'	"											"	5 BSA pers	
	(h) RAE Dump. 20,250 sq ft coverage	20 Dec											28 Dec	17 Fd Coy	Complete
E	Hospitalisation														
	2/8 AGH	21 Dec													
	Other Works														
	Water Point at 064824	18 Nov											"	"	No work in period
	Sawmill operations	27 Nov											"	"	41018 sup ft in period 134,083 sup ft to date
	JACQUINOT BAY AREA - 5 Aust Div.													2/2 Fd Coy	
	Rds & Bns														
	(a) Rd MISSION 031827-KALUMALAGI R	5 Dec											7 Jan 28 Dec	13 Fd Coy	
	(b) Rd BONDI Beach 025826 - WUNUNG R												"	12 Fd Coy	
	(c) Br WUNUNG R 014843	10 Dec											4 Jan	13 Fd Coy	Open to jeep traffic
	(d) Br KALUMALAGI R	13 Nov											14 Jan	"	
	(e) 3 Bns 2/25' 1/50'												"	"	
	(f) Clearing airstrip-Piper Cub CUTARP	28 Dec											"	12 Fd Coy	

for the Brig.
CE First Aust Army.

PART 111

ENGINEER STORES POSITION AS AT 4 JAN 45

1. SHIPMENTS ex AUST

(a) <u>Receipts</u>	<u>Tons (H)</u>	<u>Remarks</u>
JACQUINOT BAY ex AUST (NATHANIEL (Discharging) MACON)	1820	Gen Stores
AITAPE ex AUST (S. G. REED) (NOT yet unloading)	27	Refrigeration
AITAPE ex AUST (SAN SIMON) (NOT yet unloading)	25(DW)	Gen Stores
TOROKINA ex AUST (DUNTROON)	93 8	Mech Eqpt Gen Stores

(b) En Route

LAE ex AUST (RIVER PETERBOY)	497	Gen Stores
TOROKINA ex AUST (JOSIAH EARL)	23 23	Gen Stores Mech Eqpt
JACQUINOT BAY ex AUST (JAMES CLEM TS)	86	(Refrigeration Lighting Sets)
AUST ex LAE (CHARON)	487½	Mech Eqpt

(c) Awaiting Shipment

LAE ex AUST	474	Gen Stores
AITAPE ex AUST	122	Gen Stores
TOROKINA ex AUST	283	Gen Stores
MORESBY ex AUST	10	Gen Stores
MILNE BAY ex AUST	5	Gen Stores
MADANG ex AUST	8	Gen Stores
AUST ex MORESBY	170	Mech Eqpt
AUST ex LAE	490	Mech Eqpt

(d) Shipping Allotted

MADANG ex AUST (DUNDELLA)	1/114 KVA Set
<u>NOTE:</u> 114 KVA Set on arrival to be reconsigned to TOROKINA	

2. INTRA NEW GUINEA

(a) Receipts

AITAPE ex LAE (JUBAL EARLY) (NOT yet unloaded)	198	(Mech Eqpt Bitumen Ammounia)
AITAPE ex LAE (SIMON BENSON) (NOT yet unloaded)	23	Refrigeration

(b) En Route

AITAPE ex LAE (MAIWARRA)	219	(Gen Stores, Spare Parts, Bridging Eqpt)
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2. INTRA NEW GUINEA (Cont)

(c) <u>Awaiting Shipment</u>	<u>Tons (M)</u>	<u>Remarks</u>
TALASEA/HOSKINS ex LAE	12	Gen Stores
MORESBY ex LAE	9	(Explosives Spare Parts)
AITAPE ex LAE	501½	Gen Stores
TOROKINA ex LAE	1330	Gen Stores
JACQUINOT BAY ex LAE	775	(Gen Stores Timber)
MADANG ex LAE	158	(Timber Gen Stores)
LAE ex MORESBY	456	Gen Stores
LAE ex MADANG	70	Mech Eqpt
JACQUINOT BAY ex MORESBY	18	Mech Eqpt
AITAPE ex MORESBY	18	Mech Eqpt
AITAPE ex MADANG (via LAE)	70	Mech Eqpt

(d) Shipping Allotted

JACQUINOT BAY ex LAE (AK 95)	180	Gen Stores
JACQUINOT BAY ex LAE (COORABIE)	300	Gen Stores
LAE ex MORESBY (RIVER DERWENT)	?	Gen Stores
TOROKINA ex LAE (GEORGE PEAT)	177	(Bridging Eqpt Explosives Gen Stores)
AITAPE ex LAE (MELINGA)	160	Gen Stores

3. AIR MOVEMENT

(a) Receipts

LAE ex AUST (CEAS 25 & CEAS 41)	7 lbs.	Spare Parts
AITAPE ex LAE (CEAS 45 CEAS 74)	-	Spare Parts
LAE ex MORESBY (CEAS 75 CEAS 76)	456	Gen Stores
LAE ex MADANG (CEAS 87 CEA 107)	70	Mech Eqpt
LAE ex MADANG (CEA 815 CEA 1550)	70	Mech Eqpt

(b) Despatched by Air

JACQUINOT BAY ex LAE (CEA 5000)	120 lbs.	Pulleys
AITAPE ex " (CEAS 84)	30 "	Engine Parts
" " " (CEAS 85)	30 "	Spare Parts
" " " (CEAS 79-82)	30 "	Spare Parts
" " " (CEA 91-95)	20 "	Spare Parts
" " " (CEA 98)	150 "	Spare Parts
" " " (CEA 5042)	10 "	Spare Parts
" " " (CEA 5096)	224 "	(Methyl Chloride)

3. AIR MOVEMENT (Cont)

(b) Despatched by Air (Cont)

		<u>Tons (M)</u>	<u>Remarks</u>
MADANG ex LAE	CEA 5019	6 lbs	Spare Parts
" "	CEA 5042	112½ lbs	Spare Parts
AITAPE ex LAE	CEA 96	15 "	Spare Parts

(c) Awaiting Air Movement

AITAPE ex LAE	CEA 996	672 lbs	Spare Parts
TOROKINA ex LAE	CEA 5008	6 "	Spare Parts
" "	CEAS 105	168 "	Pulleys
" "	CEA 1012	112 "	Spare Parts

[Signature]
B. G.
CE First Aust Army.

RESTRICTED

HQ First Aust Army (AIF)
5 Jan 45.
CEA.1755.

Subject: FIRST AUST ARMY CE TECH INSTR No. 12

CE 2 Aust Corps	(6)
CRE 5 Aust Div	(4)
CRE 6 Aust Div	(4)
5 Aust CRE (Wks)	(4)
11 Aust CRE (Wks)	(4)
48 Aust DCRE (Wks)	
54 Aust DCRE (Wks)	
A/DCRE 6 Aust Base Sub Area	(2)
A/DCRE MADANG	
CRE 1 Aust Water Tpt Gp	
CRE 3 Aust Water Tpt Gp	
CE First Aust Army	

Copies to:

E in C	(2)
File	
War Diary	(2) ✓

BRIDGING RETURNS

Ref E in C Tech Instr No. 6 (Revised)	21 Jul 44.
E in C Tech Instr No. 17 (Revised)	25 Sep 44.
First Aust Army G. 697/50	5 Dec 44.

GENERAL

1. First Aust Army CE Tech Instr No. 7 is hereby cancelled.
2. The system of bridging accounting is set out in E in C Tech Instr No. 6, and section 8 (paras 27 and 28) gives the stock returns required of Bridge Parks and of Units. Section 7 (paras 23 - 26 incl) gives procedure with regard to write-offs, replacement of deficiencies and surpluses.
3. The purpose of this instruction is to ensure that responsibilities in connection with these returns in First Aust Army are clearly understood, and to lay down a procedure whereby this HQ can be kept informed of detailed deficiencies in Unit's WE.

ORGANISATION4. First Aust Army Bridge Park

This consists of a number of Bridge Sub-Parks located in various areas and a Bridge reserve park.

5. Bridge Sub Park

- (a) Army dumps in First Aust Army area with bridging eqpt on charge will have it assembled into a bridge sub park which will form part of that dump. It will be operated and maintained by personnel manning that Army dump.
- (b) Fd Pk Coys may hold bridge eqpt in excess of AEF entitlement on a scale authorised by First Aust Army and will thus virtually act as Bridge Sub Parks.

6. Bridge Reserve Park

This will form part of the Army reserve dump and will be maintained and operated by 13 Wksp and Pk Coy.

7. Each Bridge sub park and the reserve bridge park is individually responsible through fun channels to First Aust Army for accountability and disposal action of all bridge eqpt on its charge.

TRANSFER OF BRIDGE EQPT

8. From LHQ Bridge Parks (on mainland)
Action will be taken by unit manning the appropriate Army dump taking on charge the eqpt, as part of their bridge sub park, in accordance with Sec 2 para 8(b) E in C Tech Instr No. 6. Copy 1 of G982D is forwarded to the consignor through First Aust Army.

9. From bridge sub park to fd fun in same area.

- (a) On authority First Aust Army.
- (b) In case of operational emergency authority for transfer may be given by Field formation. First Aust Army will be advised immediately of action taken.

10. Between bridge sub parks.

On authority First Aust Army.

11. The accounting procedure will be that transfers will be made on Army Form G.982D in the manner laid down in Section 2 para 8 of E in C Tech Instr No. 6 except that for "E in C, LHQ" will be read "CE First Aust Army".

12. The channel of supply of bridging eqpt will be as for other Engineer Stores, i.e. through the Army dump responsible for the maint of the fun dump.

BRIDGE PARK STOCK RETURNS

13. All Army dumps with bridge eqpt on charge and Pd Pk Coys will render on pro-forma EOS 4951 a return of stocks of this eqpt, other than War Eqpt, as at the 10th of each month. This will be forwarded through Engineer channels to reach this 15th of month. The return will be submitted in triplicate.
14. Each type of bridging held will be shown on a separate sheet of the return.
15. The serial number in the first column will be the serial number for the item concerned as shown in Appendices A to K inclusive of E in C Tech Instr No. 17 (revised).
16. If eqpt bridging, other than floating bridging, is used to build a permanent or semi-permanent bridge, it will be treated as "Issued" to the installation and so shown on the return and action taken to write it off. The remarks column will clearly specify the installation. Eqpt bridging incorporated in tactical bridges and floating bridging eqpt requiring continual supervision and maintenance remains the responsibility of the formation to which it is issued when installed, and so will not be shown in the "Issued" column.
17. Similarly, if a semi-permanent bridge is dismantled then the material so obtained will be shown as "Received" and appropriate details shown in the remarks column.
18. All other issues and receipts will be noted with the name of the consignee or consignor in the remarks column.

19. First Aust Army maintains a record of the fixed installations and the eqpt in them.
20. Copies of br returns from Fd Pk Coys will, however, be forwarded to the br sub pk of the army dump (i.e. CRE Wks or DCRE Wks) responsible for maintenance of that fd fun to allow immediate action to be taken to replace deficiencies.

WE BRIDGING RETURN

21. The return for bridging held against WE is the Monthly Census of Warlike Stores which will be rendered in the normal way. (This gives holdings in sets but NOT detail deficiencies in the sets held).
22. To keep this HQ informed of deficiencies in detail the procedure laid down in paras 24 and 25 of E in C Tech Instr No. 6 (revised) will be extended as follows.
 - (a) As at the time of taking each monthly Census of Warlike Stores, fd pk coys will check their deficiencies in detail of sets and will submit AF.G997 through normal engr stores channels for any deficiencies NOT previously indented for.
 - (b) Should there be no deficiencies or if all deficiencies have already been indented for, the Unit will submit a NIL return in the form - "WE bridging deficiencies NOT indented for as at 20 NIL return".
23. Attention is drawn to the fact that eqpt bridging may be taken on charge against authorised WET only on authority of First Aust Army.
24. Transfer of WET bridging is as for any other controlled stores and approval must be obtained through staff channels.

Atkins
Brig
CE First Aust Army

RESTRICTED
 HQ First Aust Army (AIF)
 6 Jan 44
 CEA 1764

Subject: FIRST AUST ARMY CE TECH INSTR No 13

CE 2 Aust Corps (2)
 CRE 5 Aust Div
 CRE 6 Aust Div
 9 Aust Fd Coy

Copies to:-

File
 War Diary (2)
 Spares (10)

WEEKLY TECHNICAL SUMMARY - FIELD FORMATIONS

1. This instruction is issued to ensure that Formations' Weekly Technical Summaries contain the essential information required by this HQ, and that the summaries are prepared in a uniform manner.
2. The object of the summaries is to present:-
 - (a) A general outline of the conditions applying over the period under review.
 - (b) A statement giving the location of units and detachments under command, their strength and major items of eqpt held. This is in addition to the monthly location statement for forwarding to E in C.
 - (c) A summary of the position of Field Engineering Works in the area generally, to enable an overall picture to be obtained of the development of the Field Engineering Work.
 - (d) Details of the work carried out during the period. This will be submitted on the form set out in the current CE Tech Instrs on Works Progress reports. Minor works need NOT be included.
3. The importance of attaching sketches, maps, overlays, etc particularly in connection with such things as new roads or track location and construction cannot be too highly stressed.
4. Summaries will cover the period from 1800 hrs on one Friday to 1800 hrs on the next and will be forwarded to reach this HQ by 1800 hrs on the following Tuesday.
5. Appendix A attached sets out briefly the type of info required.
6. To ensure the regular transmission of engr intelligence data, it would be appreciated if interim reports could be included where appropriate as a separate part of the Weekly Technical Summary, with appxs attached. Further details and consolidation would then be forwarded in the monthly intelligence summary.
7. This instr in no way affects Tech Instr No 5, Intelligence Summary - which is a comprehensive review of all engineering intelligence incl engr recoc reports for the previous month.

Brig.
 CE First Aust Army.

CONFIDENTIALRAE 20 AUST DIV TECHNICAL SUMMARY No 6.For Period 1800 hrs 5 Jan to 1800 hrs 12 Jan 1945.

Ref Map(s)	1/63;360	HOPEFUL BAY
	1/63,360	OPTIMISM

GENERAL

1. In the HOPEFUL BAY area heavy rains on 4 and 5 Jan caused flooding of rivers and damage to bridges from logs, debris etc. Roads suffered some scouring, but no major damage. Traffic can still get through from HOPEFUL BAY to PROMISING PLANTATION, but will be restricted until 11 Jan when it is estimated that repairs to roads and bridges will be complete. Progress of the remaining works in the area has been delayed due to concentration on effecting immediate making good of damage.
2. In the OPTIMISM area land conditions remained good and work was able to be continued without interruption. Continued heavy surf restricted landing craft operations.

UNITS

Serial	Unit	Location	Strength in Area.	Tasks	Major Eqpt
1	70 Aust Fd Pk Coy less Mech Eqpt Pl	232323	4 x 108	Op Wksp & Stores Dump	WET complete except for one Transporter 20T
2	81 Aust Fd Coy with in support Mech Eqpt Pl 70 Aust Fd Pk Coy	121212	6 x 210	Rds & Brs. Rd PROSPECT PT - CAPE CHEERFUL	Fd Coy deficient 6 tipper. These are urgently required. Mech Eqpt Pl - Eqpt on jobs - 1 - Autopatrol 4 - D6 Dozers 1 - Ripper
3	82 Aust Fd Coy less one pl	434343	5 x 150	Constr - Bde acqn.	1 compressor written off - re- placement required.
4	2 Pl, 82 Aust Fd Coy	545454	1 x 58	Constr of barbe land- dozer on loan from Americans. BOUNTIFUL BEACH	Pl eqpt plus D6 dozer on loan from Americans.

SUMMARY OF WORK

4. In the HOPEFUL BAY area, road construction from PROMISING PLANTATION to PROSPECT POINT is complete and provides a two way road, with the exception of the bridges which are single width.
The location of the road from PROSPECT POINT to CAPE CHEERFUL is complete, and is shown on sketch - appendix A. Construction is proceeding on brs and road, and at present single way traffic is possible to RIPPING RIVER, and in this section 6 bridges Class 9 totalling 200' have been constructed. Work is now proceeding on the section RIPPING RIVER - HAPPY HILL and includes 4 bridges of spans from 20' to 50' totalling 190' in all. Heavy maintenance will be involved in this section. Details are given in Appx A - Works progress report and Appx B - Progress report on rds and brs.

APPENDIX A

Page 2.

5. In the Optimism area acen for two bde gps's complete and only acen for transit area is now to be completed - ETC 15 Jan. Three barge points have been constructed at BOUNTIFUL BEACH in the location shown on sketch Appx B. Two moe are yet to be constructed, but positions have not been finalised. Full details of the construction of these barge points, and their suitability under operating conditions, standing up to surf etc, will be included in next Intelligence Summary. Details are given in Appx A - Works progress report and Appx B - Progress report on Rds and Brs.

INTERCOMMUNICATION

6. Line and WT/RT from HQ to 57, 58 and 59 Fd Coys. DR to 60 Fd Coy.

CONFIDENTIAL

HQ First Aust Army (AIF)
7 Jan 45
CEA. 1760

Subject: FIRST AUST ARMY CHIEF ENGINEER INTELLIGENCE
SUMMARY No. 3

CE 2 Aust Corps	(9)
CRE 5 Aust Div	(5)
CRE 6 Aust Div	(6)
5 Aust CRE (Wks)	(8)
11 Aust CRE (Wks)	(8)
48 Aust DCRE (Wks)	(5)
54 Aust DCRE (Wks)	(5)
A/DCRE Area Comd MADANG	
A/DCRE 6 Aust Base Sub Area	(2)
1 Aust CRE HQ Forests	
CRE 1 Aust Water Tpt Gp	
CRE 3 Aust Water Tpt Gp	
CRE 3 Aust Docks Gp	
E in C, LHQ	
DE in C, Adv LHQ	
RE Forward Echelon LHQ	
RE Rear Echelon First Aust Army	
Aust 10 to CE, GHQ	
CE Second Aust Army	
CE 1 Aust Corps	
RAETC, WAGGA	
LHQ SUE	
File	
War Diary	(2)
Spares	(12)
-----	-----

1. Attached hereto is summary of engineer intelligence compiled from information received for period 1 - 31 Dec 44.

Part I	-	Tactical - Own
Part II	-	Technical - Own
Part III	-	Tactical - Enemy
Part IV	-	Technical - Enemy

2. Ack.

Blechnery H.C.
1st Brig
1st Aust Army.

FIRST AUSTRALIAN
CHIEF ENGINEERS INTELLIGENCE SUMMARY

No. 3

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NOTE: This summary is a collation of reports received from all available sources. Lessons learnt, etc are NOT intended to indicate in any way policy of CE Branch First Aust Army.

PART I

TACTICAL -- OWN

11. Use of Aerial Photographs (Source - CRE 3 Aust Div)
 - (1) Air photographs proved especially useful in the following ways for study at RAE HQ of areas of operations in advance:-
 - (a) Measuring river gaps
 - (b) Determining navigability of rivers, location of snags etc.
 - (c) Extent of swamps
 - (d) Nature of vegetation
 - (e) Location and widths of Jap tracks and roads
 - (2) Subsequent ground recce of areas studied from photographs has shown that measurements of gaps were accurate to approx 5% and track widths were reliable.
 - (3) Tracks are often wholly or partly obscured by foliage so that only in a few places can widths be measured. Ground recce has shown these tracks to be of constant width.
 - (4) Rivers proved more difficult to navigate than could be judged from the photographs, because shallows and bars are difficult to pick up, although large snags are easily seen.
 - (5) Advantages and disadvantages of infra-red included --
 - (a) Narrow streams almost completely hidden by foliage could be picked up when they might have been missed in ordinary photographs. This is due to infra-red showing all water black, against the white of the vegetation.
 - (b) Underwater obstacles cannot be seen in infra red photographs, thus reefs and sandbars were not visible and no indication could be obtained of depth of water.

PART II

TECHNICAL -- OWN

12. Air lift pump - (Source 5 CRE (Works))
 - (1) Appendix A shows a sketch of an air lift pump which has proved satisfactory, giving an output of 1000 gals per hour, air being supplied from a Model 100 I.R. Compressor.
 - (2) Details are as follows:

Depth of water table below natural surface	4'
" " bore casing " " "	37'6"
" " rising main " " "	31'6"
" " air injector holes " " "	27'6"
Height of delivery surface above natural	2'6"
 - (3) Construction
 - (a) Bore casing - Consisted of 2 x 20' lengths of 6" dia. steel water piping welded together, with saw teeth cut on the bottom for a cutting edge. A series of slots were cut in the bottom 15' length to permit the ingress of water.

The casing was jettied into position using 4 x 1" dia. jets welded to the bottom of a 1 1/2" dia. water pipe. Time for jetting in the light sandy soil encountered was 45 min.

- (4) Operation.

13. FBE Mk III -- WEAKNESSES (Source 5 Aust Fd Coy)

24. TIMBER CUTTING - DANGER OF SKIN IRRITATION (Source CE 2 Aust Corps)

- ## 15. EngineerWorks Constants

16. CLEARING CAMP SITES - (Source 53 Aust Fd Plk Coy)

- (1) In clearing ten camp sites totalling 75,000 sq yds in country covered with dense undergrowth and trees up to 2' dia, using a D6 dozer, the rate of clearing was 580 sq yds per tractor hour. The average length of doze was 25 yds.
- (2) Comparing this rate with the corresponding rate using man power alone, 1 BHP hour is equivalent to 5 man hours.

17. MONTHLY CONSUMPTION RATES - EXPENDABLE ENGINEER STORES
(Source CE 2 Aust Corps)

The monthly consumption rate of expendable engineer stores for RAE field units, where work included accommodation, bridging and road construction, was 0.6 tons per man per month for Dec.

For other arms in field formations where stores were used for accommodation and defence purposes the consumption rate was 0.5 tons per man per month.

In each case the weight is related to actual number of men consuming the stores (excl administration and other overhead).

PART III

TACTICAL -- ENEMY

18. JAPANESE MINE FIELDS AND BOOBY TRAPS ENCOUNTERED ON LEYTE.
(Source FFA 15 No. 134)

Since the American landings on LEYTE, Japanese use of minefields and booby traps has been on an extensive scale.

On the day of the landing at MACLOBAN it was found that the airstrip had been thoroughly mined, using aerial bombs.

Description of the field is as follows:

Type These principally used were 63-kg bombs dug in with the nose pointing upward. Fuzes were approximately level with the ground. One 100-kg bomb was also found.

17. Pattern Bombs were placed in groups of three directly down the centre of the strip obviously intended to destroy landing aircraft. Found along the shore line were six bombs spaced for the destruction of amphibious landing craft or vehicles utilising the shore line as a roadway.

A similar pattern was used on the DULAG strips. There also, fuzed bombs, camouflaged by the grass, were merely laid on the ground along the edge of roadways. The brushing of truck wheels against the nose would suffice to detonate the bombs.

An illustrative diagram is attached as Appendix D.

TACTICAL -- ENEMY

PART IV

18. JAPANESE MINE FIELDS AND BOOBY TRAPS ENCOUNTERED ON LEYTE
TECHNICAL -- ENEMY

19. COCONUT AND BOX MINES (Source FFA 15 No. 134)

Further new types of Japanese mines were found on LEYTE, rigged as booby traps in buildings and planted along roads as anti-vehicle mines.

Besides the standard Type 93 "Tape measure mines" and the Type 99 Magnetic Mine (armour piercing), improvised mines of many types have been found both in position and stored in ammunition dumps.

By utilising the shell of a coconut and embedding a hand grenade in black powder within, the Japanese have contrived a natural camouflaged mine. The fuze for the hand grenade is of the pressure type with 4 to 5 second delay before detonation; therefore, its primary use has been for pressure type booby trapping.

The device was also possibly intended to roll downsides.

For this purpose the coconut was placed in the middle of the road, and the hand grenade was camouflaged by the grass. The fuze for the hand grenade is of the pressure type with 4 to 5 second delay before detonation; therefore, its primary use has been for pressure type booby trapping.

Crude Box Type Mines employing the same principle as the coconut mine are exceptionally common. These have been found in the grass along roads and rigged up beneath staircases and floors of buildings containing ammunition.

Many different sizes of wooden boxes have been constructed for electrical or time fuze detonation. Electric caps found with mines are similar to American standard types. The explosive charge has been either picric acid or black powder. An attempt to blow a bridge over the MAHABE RIVER was made by the retreating Japs by hooking eight of these boxes electrically with 21 cases of 75mm shells placed on and around the boxes. When found, one box had burned but not detonated.

A sketch of typical types of such mines is attached as Appendix E.

20. JAPANESE TAIL FUZE B7(A) - (Source E in C, Landforces)

(1) Japanese tail fuze B7(A) which was previously listed as an impact fuze, is now definitely proved to be an ANTI-WITHDRAWAL fuze. It is incorporated in Type I Army Airforce Bombs, together with a C.3(A) long delay fuze in the nose.

A new type of tail cone has been fitted in which the fuze adapter has three threads and an annular groove.

(2) The fuze is armed on impact by the inertia weight moving clear of the striker, and retained in that position by a spring loaded locking pin. The trigger arm is prevented from moving out by the wall of the fuze adapter which is a close fit to the fuze.

(3) Any attempt to remove the fuze will result in the trigger being forced out by its spring, when it comes opposite to the annular groove, thus releasing the cocked striker, which immediately moves forward, to initiate the primer and detonate the bomb.

(4) Should a Type I Bomb fitted with a B.7(A) fuze be encountered, NO ATTEMPT will be made to withdraw the fuze. Fuze will be blown up with the bomb.

(5) Amendment to E in Cs BDFI No. 2/8/15 will follow in due course.

21. CONICAL ANTI-TANK HAND GRENADE - (Source MEIU)

A new type of Japanese hollow-charge anti-tank grenade was recovered by MEIU personnel on LEYTE ISLAND. Two sizes of this grenade, the smaller of which is believed to be an experimental model, were recovered. The large size is reported from documents to be a Type 3, but this designation did not appear on the packing box, on the explosive label, or in the sheet of instructions.

I. Grenade Description - see Appendix F

The grenade consists of the explosive charge, a cone, and a wooden base contained in a silk bag with a fuze and tail attached to the upper portion.

The explosive charge is cast in the form of a truncated cone with a metal cone in the lower end. In the upper end is a well to receive the gaine of the fuze. Surrounding the gaine is a cast ring pellet. In the large size grenade the explosive is Type 94, and in the small size grenade it is Pentalite (50/50 TNT and PETN). Surrounding the charge is a thin layer of waxed paper.

The metal cone is 3 mm thick. In the large size grenade the cone is made of steel, and in the small size grenade it is made of aluminum.

At the bottom of the explosive charge is a wooden base which is flat on the top and rounded on the bottom. There is a hole in the base of slightly smaller diameter than the diameter of the cone.

Covering the charge and base is a silk bag either white or olive drab in colour. A draw-string is fitted into the bottom of the bag and when the grenade is assembled, the string is pulled together and tied thus forming a cover at the bottom. A metal ring is inserted over the top of the bag and the bag is then folded over the ring. Fitting inside the top of the explosive charge is an adapter ring which is threaded to receive the fuze. Four screws are threaded through the metal ring and bag, and into the adapter thus holding the parts together.

Tied around the top of the grenade is a tail made of hemp. The purpose of this is to provide stability in flight and to make the grenade strike the tank base first.

II. Data

	Large Grenade	Small Grenade
Length of grenade	... 6-3/4"	5-7/8"
Length of tail	... 14"	
Diameter at base	... 4-3/8"	4"
Length of fuze	... 1-7/8"	1-7/8"
Length of cone	... 5-3/4"	2-3/8"
Diameter of cone	... 2-3/8"	2"
Cone angle, apex	... 30°	38°
Weight complete	... 1.25 Kg	.84 Kg
Weight of grenade	... 1.14 Kg	.76 Kg
Weight of fuze	... 42.5 grams	42.5 grams
Weight of explosive	... .87 Kg	.60 Kg
Weight of cone	... 141.7 grams	42.5 grams
Weight of base	... 56.7 grams	50.0 grams
Weight of gaine	... 5.1 grams	5.1 grams

III. Fuze

The fuze is constructed in two parts which are threaded together. The lower body has external threads for screwing into the adapter ring and internal threads for receiving the gaine.

The striker is held in position by a safety pin and creep spring. The under side of the upper body and the top of the striker are curved so that if the grenade strikes at a slight angle the striker will be cammed down. Before the grenade is thrown the safety pin is pulled and on impact the firing pin overcomes the spring and moves down onto the primer. The fuze is not "always action", but will probably function on a slight angle of impact.

IV. Markings

On the bag is a Naval arsenal mark. A label on the explosive charge of the large grenade gives the following information: "Bursting charge for large model hand-thrown conical grenade, Type 94 Explosive, Lot 1, manufactured July 1944, cast July 1944, manufactured at the 3rd Naval Powder Factory". The label on the small grenade reads: "Bursting charge for temporary designation hand-thrown conical grenade."

V. Performance

The following information about performance and use is compiled from captured documents.

The grenade should be thrown from a distance of 10 meters (33 ft) and will penetrate 70 mm of armour plate. The fuze will not function unless the mine has attained a velocity of 10 meters per second and strikes a hard surface.

22. JAPANESE NAVY TYPE 3 (FLOWER POT) LAND MINE - SMALL
(Source MEIU).

This mine was found on LEXTE ISLAND by MEIU personnel. The mines were packed five per box. Five fuzes, in individual cardboard containers, are in one end of the box along with a spool of cotton trip cord. In a Japanese document previously captured in the MARIANAS, it is stated that the mine is manufactured in two sizes; only the smaller one, discussed in this report, has been received by this unit. The larger mine, according to the captured document, is 270 mm in diameter but has the same height as the smaller mine. It is said to contain 6½ lbs of explosives.

No report has been received of the actual effectiveness of the mine but in the Japanese document the mine is considered to be effective against the tracks of a heavy tank. It is also stated that there would be considerable fragmentation of the mine wall with several fragments two inches square; this and the blast effect would probably make the mine effective against personnel.

I. Mine Description -- see Appendix G

Both the mine and the majority of the fuze are constructed of non-ferrous materials and probably would be impossible to locate with a magnetic type of detector.

The mine case is made of earth-coloured terra-cotta. The outer surface has a thin dull glaze while the inner surface is highly glazed.

The mine comes with the rubber fuze seat sealed in place. While this would appear to be a moisture proof mine, instructions on the outside of the box are: "Do not plant in damp ground".

The type 88 explosive filler is contained in a light rubber bag inside the mine. The captured document states that the bursting charge might also be either of these compositions: Ammonium nitrate (50%) TNT (50%) of Ammonium nitrate (90%) Dinitronaphthalene (10%).

II. Mine Data

Total weight of mine (fuzed)	...	11 lbs 6 oz
Maximum diameter	...	220.0 mm
Height (without fuze)	...	105.0 mm
Height (fuzed)	...	157.5 mm
Material of mine wall	...	Terra cotta
Explosive filling	...	Type 88
Weight of explosive	...	4 lbs 8 oz

III. Fuze Description

The fuze body, cover, plunger and striker support are made of bakelite. The fuze is screwed into a threaded rubber fuze seat. The springs, percussion hammer, striker, and the release fork, the only metal parts in the mine are, with the exception of the release fork, all contained inside the fuze. The directions printed on the fuze container state that the fuze can be screwed in more easily after applying saliva to the fuze threads.

IV. Fuze Data

- 7 -

Length		
Weight (without gaine)	....	65.0 mm
Gaine threads:	....	56.0 grams
length of threaded portion ..		4.2 mm
outside diameter	....	11.0 mm
threads per inch, U.S. Std	....	32
Body threads:		
length of threaded portion..		12.5 mm
outside diameter	....	18.0 mm
threads per inch, U.S. Std	....	13

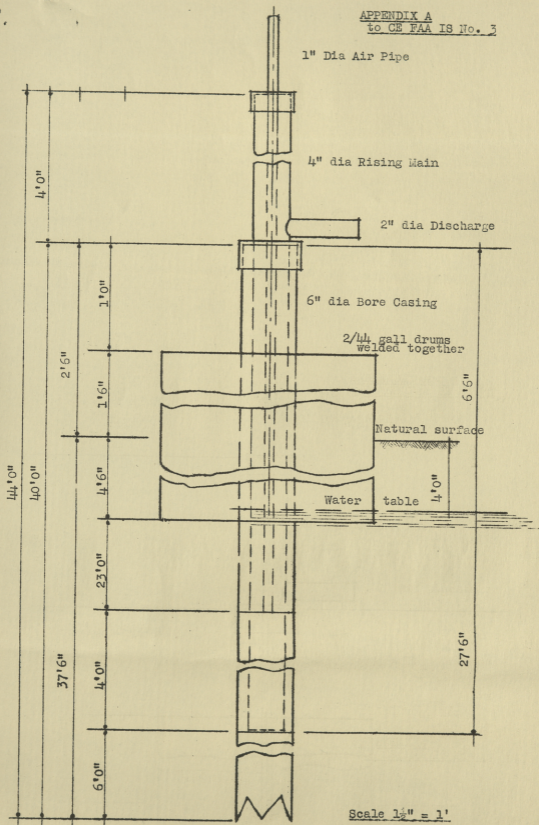
A document reports this fuze to be inter-changeable with the standard Type 88 and Type 100 artillery fuzes, thereby permitting the use of projectiles and mortars as effective land mines. No Navy fuzes of these types are known. This fuze is not inter-changeable with any known artillery fuze.

V. Operation

When rigged, the fuze will fire either by pressure or by pull. The percussion hammer, located within the fuze, is held in place by a release fork to which a trip wire may be attached. When the wire is pulled, the fork releases the hammer which is forced downward by the hammer spring. The hammer comes in contact with the striker forcing it through its bakelite holder into the percussion cap.

As pressure is applied directly on the head of the fuze, the plunger spring is compressed, causing the hammer release fork to bear on the cover. As the plunger spring is further compressed the hammer head jams out the fork. It then fires as above.

APPENDIX A
to CE FAA IS No. 3



AIR LIFT PUMP

APPENDIX B
to CE FAA IS No. 3

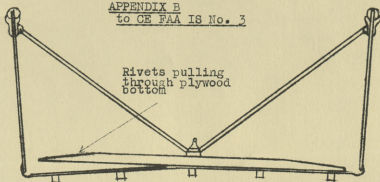
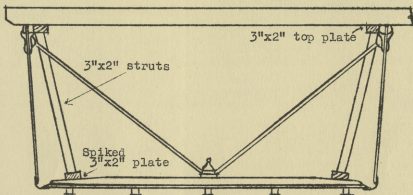
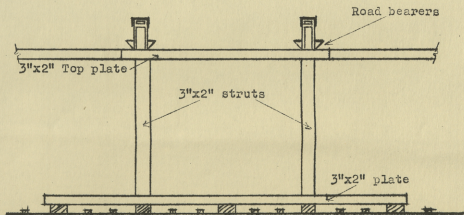


DIAGRAM SHOWING DAMAGE TO BOATS
Cross section at centre



METHOD OF STRENGTHENING BOATS



METHOD OF STRENGTHENING AT CENTRE BEARERS

METHOD OF STRENGTHENING FOLDING BOATS

Not to scale

Addition No. 1 to CEA.759 of 15 Nov 44

APPENDIX C
FAAEIS No. 3

ITEM	CONDITION FACTORS REMARKS	RATE	AUTHORITY
HUTTING	Tropical hut Mk IIb with open sides. Earthen floor. Timber delivered to site docked to length. Compressor and 2 spaders used to hole excavations.	(a) Sapper labour only. 130 sq ft per man day. (b) Sappers & working party Taskwork ~ 150 lin ft per day = 6550 sq ft per day Gangs organised as follows: Spars Working Party Post hole party 4 10 Frame construction 2 7 Frame erection 2 10 Purlin party 2 4 Bracing party 4 - Roofing party 7 5 Total 21 36 Task usually completed in 7 hrs. Constant = 118 sq ft per man day	17 Aust Fd Coy.
TIMBER BRIDGE	6 Bridges constructed 4 single 2 double span. Coconut log stringers 4" sawn timber deck. Framed trestles as abutments & piers. Sheeting and wing walls coconut logs. R4 tractor used for hauling logs and compressor equipment for boring and driving pile	1.15 man hours per sq ft	17 Aust Fd Coy.
CULVERTS	Coconut bed logs with longitudinal coconut log decking. Spans 5 - 10 feet R4 tractor for hauling logs.	8 - 10 men = 1 day	17 Aust Fd Coy
CLEARING	Dense tropical undergrowth with trees up to 4' dia. Trees too large for dozer, felled by hand. D7 dozer used - Rates include time allowed for servicing, maintenance and minor repairs.	Debris moved av of 250 ft 260 sq yds per hour Debris moved av of 40 ft 400 sq yds per hour	5 Aust CRE (Wks)

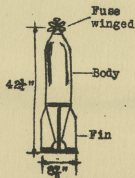
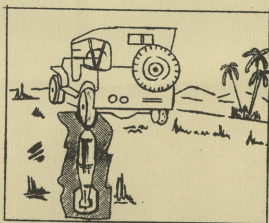
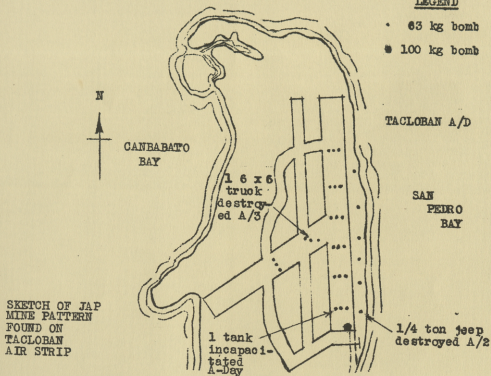
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APPENDIX D
to CE FAA IS No. 3
JAPANESE MINE FIELDS AND BOOBY TRAPS ENCOUNTERED

ON LETTE

LEGEND

- 63 kg bomb
- 100 kg bomb

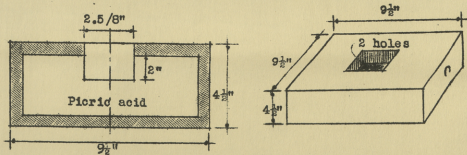
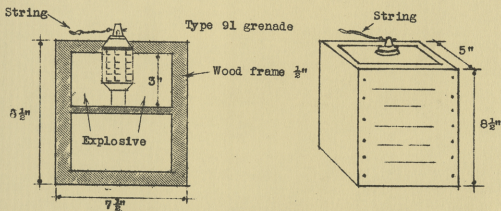
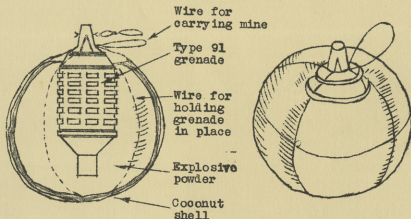


TYPE 63 Kg MINE

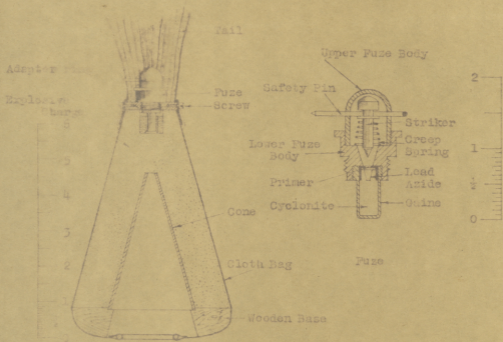
SKETCH SHOWING METHOD OF DETONATION
BY VEHICLE WHEEL

APPENDIX E
to CE FAA IS No. 3

COCONUT AND BOX MINES



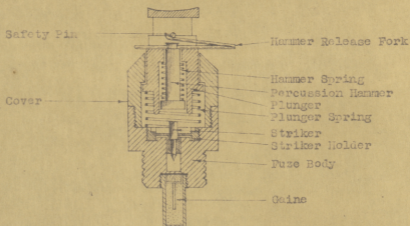
FOR ELECTRICAL DETONATION



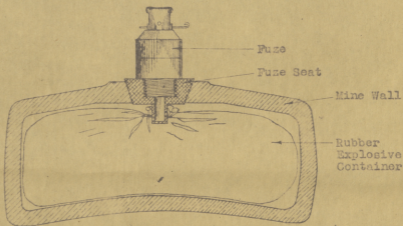
Large Size Grenade



Hand Grenade



Type 3 Land Mine Fuse



Type 3 Land Mine

JAPANESE NAVY TYPE 3 (FLOWER/POT) LAND MINE - SMALL

HQ First Aust Army (AIF)

10 Jan 45

CEA.

Subject: FIRST AUST ARMY CE TECH INSTRUCTION No. 2
(revised to 10 Jan 45).

CE 2 Aust Corps
CRE 5 Aust Div
CRE 6 Aust Div
5 Aust CRE (Wks)
11 Aust CRE (Wks)
48 Aust DCRE (Wks)
54 Aust DCRE (Wks)
A/DCRE Area Comd MADANG
A/DCRE 6 Aust Base Sub Area
CRE 1 Aust Water Tpt Gp
CRE 3 Aust Water Tpt Gp
CRE 3 Aust Docks Gp

Copies to:

CE First Aust Army
E in C (2)
DE in C (2)
SORE Fwd Ech LHQ
Aust LO to CE, GHQ Det APO 500
File (2)
War Diary
Spares (10)

RAE BASE AND FIELD FORMATIONS - RELATIONSHIP AND DUTIES

Ref: HQ First Aust Armd G/33/8D - 6 Oct 44
Adm Instr 1 - 6 Oct 44
Adm Instr 5 - 22 Oct 44

RESPONSIBILITIES

1. GsRE and DCsRE (Works) operate independently of CEs and CEsRE field formations. These latter will however give technical advice on such matters as requested by GsRE or DCsRE (Works) in that particular area.
2. GsRE and DCsRE (Works) are technical advisers to their respective formation comds and, as CE First Aust Army's works representative in a particular base sub area or area cmd, are responsible to him for the administration and control of engr general administrative installations such as army engr stores or bridging dumps, etc.
3. CRE (Works) exercises cmd over all engr units except RAE (Tn) allotted to his formation. DCRE (Works) exercises complete technical control of all engr units except RAE (Tn) allotted to his formation and will also coordinate the submission and distribution of engr returns.
4. The engr officer holding the senior appointment in a particular area may make technical inspections of all engr work and engr units in that area, acting as CE First Aust Army representative in that area. He will report any technical irregularities regarding engr work, training or general efficiency. He will, however, in no way exercise control over other than units of his formation.

DUTIES

5. Technical returns

CE Corps and C&RE of field formations directly under comd First Aust Army and C&RE and DC&RE (Works) of separate formations will independently submit such engr returns as are called for by CE First Aust Army from time to time.

Detail of such returns as are required at present are as follows:

(a) Personnel

- (i) Return of offrs postings as at 15th of each month.
- (ii) Confidential reports monthly on senior Capts and Lieuts with a view to promotion or otherwise as vacancies occur.
- (iii) Advice by quickest means of relevant officer movements as they occur.
- (iv) Such information relating to personnel generally as is requested in Weekly Technical Summaries (field formations).

(b) Engineer activities and information - works and operations

- (i) Field formations - Weekly technical summary including weekly progress reports and any special recce or other intelligence information.
- (ii) Base formations - Weekly works progress reports.
- (iii) All formations - Monthly engr intelligence summary.
- (iv) Mech Bt, Br Bt, dump returns vide current instrs.

(c) Unit matters

Location statements including posted strengths of units, etc. monthly as at 20th of each month.

RAE (Tn)

6. C&RE of RAE (Tn) groups will continue to submit periodic summaries of activities and technical efficiency reports as usual to CE First Aust Army. Where units of a group are working detached in other areas or under comd other formations, C&RE of RAE (Tn) groups will continue to exercise technical control of all their units or detachments thereof.

Brig
CE First Aust Army

CONFIDENTIAL

HQ First Aust Army (AIF)
11 Jan 45
CEA 1812

Subject: FIRST AUST ARMY ENGINEER WEEKLY RESUME

CE 2 Aust Corps (2)
CRE 5 Aust Div
CRE 6 Aust Div
5 Aust CRE (Wks)
11 Aust CRE (Wks)
48 Aust DCRE (Wks)
54 Aust DCRE (Wks)
A/DCRE Area Comd MADANG
A/DCRE 6 Aust Base Sub Area
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Gp
CRE 3 Aust Water Tpt Gp
CRE 3 Aust Docks Gp
CE First Aust Army.

Copies to:

E in C (2)
DE in C (2)
SORE Fwd
Aust LO to CE, GHQ Det APO 500
File (2)
War Diary
Spares (10)

1. Attached hereto is summary of engr activities to 11 Jan 45, as follows:-

Part I	-	Operational
Part II	-	Works Resume
Part III	-	Store Position.

2. Ack.

Blanchard
Brig.
CE First Aust Army.

PART I - OPERATIONS

ENGINEER ACTIVITIES -- FIELD FORMATIONS

1. 2 Aust Corps

The S.W. coastal road has been continued as far as TAVERA R. This road is now class 9 to, excl JABA R and jeepable from excl JABA R to TAVERA R. A class 12 piled bridge over the REINI R is now nearing completion, and this will release the FBE bridge for further operations.

Along the NULIA NULIA trail a jeep track is being surveyed and will be commenced forthwith in the difficult country from the Road Head to PEARL RIDGE.

2. 5 Aust Div

Work has continued on the roads and bridges in the divisional area. Access roads for a brigade area at SAMPUT have been commenced. On the north coast an ALG is being constructed at BIALLA.

3. 6 Aust Div

Construction of the coastal road as far as ROCKY POINT (approx 2 miles east of the DAMIAP R) is now in progress. Work has commenced on the 300' bridge - 6 x 50' timber truss spans (ring connectors) over the DAMIAP R. During the period 8 bridges totalling 650' were completed.

ENGINEER EQUIPMENT

4. Mech Eqp

Inspections of equipment in TOROKINA and JACQUINOT BAY have been completed and have revealed that a number of replacements - particularly of D6 type tractors - are required above those previously requested. Detailed lists are in process of compilation.

The maintenance standards of units are improving. The routine of evacuation to AEME Workshops and division of responsibility between RAE and AEME in these areas has been clarified at conferences held between the parties concerned.

Replacement machines which we were previously notified were available on the Mainland have started to come forward.

5. Mine Detectors

One No. 2 Detector has been located which can be tuned to quietness. This instrument appears to give extremely good results and a full report on it is being prepared by the unit holding it. Accurate detail is not yet available.

MOVEMENT OF UNITS

6. The following movements of RAE units have been advised since 4 Jan 45:

AUST - TOROKINA

Det 42 Aust Landing Craft Coy	-	Arrd	9 Jan 45
Main Body 15 Aust Pd Coy	-	"	5 Jan 45

AUST - JACQUINOT BAY

Det 4 Aust Pd Coy	-	Depd	6 Jan 45
Det 17 Aust Pd Coy	-	Arrd	8 Jan 45
Det 1 Aust Water Amb Convoy	-	Arrd	8 Jan 45

H. Blechnow *W. C.*
CE First Aust Army.

WEEKLY RESUME BY CHIEF ENGINEER FIRST AUST ARMY

PART II - Weekly Progress of Engr Constr (As at 5 Jan 45)

Page 1

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE						E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80		
1	<u>MORESEY AREA</u>											
	Other Works											
	(i) Frt 5.25 CA/AA Bty Emplacements	18Oct	---	---	---	---	---	---	---	10Jan	5 Jan	10 AA & Frt
	+ Command Post	15Apr	---	---	---	---	---	---	---	20Jan	"	"
	+ No 1 & 2 ER Wksp	17Apr	---	---	---	---	---	---	---	6 Jan	"	"
	+ Day BOP	9 May	---	---	---	---	---	---	---	30Jan	"	"
	+ Elec Install	17Apr	---	---	---	---	---	---	---	"	"	"
	+ Accomm Scale A	15Apr	---	---	---	---	---	---	---	"	"	"
	(ii) Sawmill operations		Continuous							"		51 Fd Pk Coy
2	LAE - LABU AREA (Ref Map LAE 1:25000)											15 500 sup ft in week
A	<u>PORT FACILITIES</u>											
	(i) Small Ships Wharf	?	---	---	---	---	---	---	---			20 Fd Coy
B	<u>Bridges</u>											
	Foot Suspension Bridge BUSU R	?	---	---	---	---	---	---	?	"	"	Temporarily suspended
C	<u>Installations</u>											
	(i) LAE Power Station	12Sep	---	---	---	---	---	---	20Jan	"	8 A Tps	} vide page 4
	(ii) Reticulation & Services		---	---	---	---	---	---	28Feb	"	"	
E	<u>HOSPITALISATION</u>											
	(i) 2/7 AGH - Incidental Wks & Maint		Continuous							"	"	
F	Other Works											
	(i) HQ First Aust Army Acen	3 Oct	---	---	---	---	---	---	---	"	20 Fd Coy	Continuous
	(ii) SALAMAU - AANS Rest home	4 Nov	---	---	---	---	---	---	29Dec	"	8 A Tps	Completed
	(iii) 83 Wing RAAF	?	---	---	---	---	---	---	---	"	"	
	(iv) 16 Aust Detention Barracks	?	---	---	---	---	---	---	30Dec	"	20 Fd Coy	Complete
	(v) Sawmill operations		Continuous								2/2 Forestry	110882 sup ft during week
	(vi) Gravel output		Continuous									1136 cu yds during week
	(vii) Trg School YALW		Continuous									
3	<u>MADANG AREA</u>											
	Sawmill operations		Maintenance Only								8 Fd Coy	
			Continuous								"	3900 sup ft in week
4	<u>TOROKINA - 2 Aust Corps.</u>											
B	<u>Rds & Brs</u>											
	REINI R Br	26Dec	---	---	---	---	---	---	14Jan	5 Jan	5 Fd Coy	
	TAVERA R Jeep Br	5 Jan	---	---	---	---	---	---	7 Jan	"	11 Fd Coy	
	Rd MAVAVIA R - TAGESSI R	3 Jan	---	---	---	---	---	---	12Jan	"	5 Fd Coy	Widening and reforming
	Track JABA R - MR 797772	3 Jan	---	---	---	---	---	---	1 Feb	"	11 Fd Coy	
	Rd Road Head - PEARL RIDGE	5 Jan	---	---	---	---	---	---	5 Mar	"	16 Fd Coy	

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE							E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80			
4	<u>TOROKINA (Base Area Wks)</u>												
C	<u>Installations</u>												
	(i) BSD Refrig 1/5000 cu ft 4/1800 cu ft	Nov								?	5 Jan	6 A Tps	4/1800 cu ft installed & in use
	(ii) AOD 252,000 sq ft coverage	8 Oct									"	"	300x40 & 10/120x40 comp
	(iii) AAD 42,300 sq ft coverage	?								10 Feb	"	"	22/60x18 completed
E	<u>Hospitalisation</u>												
	(i) 2/1 AGH	4 Nov								16 Jan	"	5 & 6 A Tps. 10	Fd Coy. Can be occupied by mid Jan
F	<u>Other Works</u>												
	(i) AAC 1/300x45.2/90x45 Acces Culvert	9 Oct								?	"	6 A Tps	Complete
	(ii) Base Sub Area - 17 bldgs	13 Oct								"	"	"	Complete
	(iii) ANGAU 8640 sq ft coverage	13 Nov								?	"	"	Held up for materials
	(iv) 1 Mech Eqp Wksp 12600 sq ft cover.	15 Dec								?	"	"	
	(v) BIPOD 3360 sq ft coverage	25 Dec								?		Unit Labour	
	(vi) Sawmill operations		Continuous									2/2 Forestry	49056 sup ft sawn in period
5	<u>AITAPE AREA (6 Aust Div)</u>											5 A Tps	5783 sup ft sawn in period
B	<u>Rds & Brs</u>												
	Rd DRINIUMOR R to BABIENG	-	Continuous							-	7 Jan	2/8 Fd Coy	Mtce and improvement
	Rd SUAIN to DANMAP R	2 Jan								11 Jan	"	2/2 Fd Coy	
	Rd DANMAP R to ROCKY POINT	1 Jan								10 Jan	"	2/2 Fd Coy	
	Br NICIA R 220' span	7 Dec								22 Jan	"	2/1 Fd Coy	
	Br WALGEMOL	15 Dec								13 Jan	"	2/14 Fd Coy	
	WILLIAMS R	15 Dec								10 Jan	"	2/1 Fd Coy	
	KORONAL Br	20 Dec								15 Jan	"	2/1 Fd Coy	
	DANMAP R Br	2 Jan								26 Jan	"	2/14 Fd Coy	Preparing site and materials
	8 Brs totalling 650 ft	-								-	"	6 Div Fd Coys	
C	<u>AITAPE AREA (Base Area Works)</u>												
	<u>Installations</u>												
	(i) ASC 103,110 sq ft coverage	9 Nov								31 Jan		1 Fd Sqn	
	(ii) AAD 14,400 sq ft coverage	8 Nov								?		"	No work in past 3 weeks
E	<u>Hospitalisation</u>												
	(i) 2/1 AGH	6 Nov								?		"	Awaiting arrival stores
F	<u>Other Works</u>												
	(i) Canteen Bulk Store & Bldgs	28 Oct								?		"	No change since last report
	(ii) Farm Coy. Storage Accom	6 Nov								"	"	Unit	
	(iii) Refrigeration. 3/5000 cu ft	?								?	"	1 Fd Sqn	No change since last report
	(iv) Mobile Laundry	8 Nov								?	"		Unit labour
	(v) 6 RSD Para Hut Store Shed 100'x45'	1 Dec								22 Jan	"	Unit labour	

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE										E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80	90					
E	(vi) Sawmill output (vii) Gravel output JACQUINOT BAY AREA - 5 Aust Base Sub Area														2/2 Forestry	3335 sup ft in period
															2/3 Rly Constr	4540 cu yds to date
A	Port Facilities															
	(a) Liberty wharf	21Dec														Logging of piles in progress. Pile driving to commence 30Dec
B	Brs Ras Airfields															
	(a) Main Rds Base Area	28Nov											19Jan	5 Jan	2/3 Rly Constr	
	(b) Clearing strip	7 Dec											12Jan	"		
	(c) Bridges Base Area	18Nov												"	17 Fd Coy	
C	Installations															
	(a) AASC 94000 sq ft coverage	10Dec											?	"	"	30,240 sq ft complete
	(b) AOD 90,230 sq ft coverage	7 Dec											?	"	"	Ord Serv. 37,000 sq ft
	(c) AAD 11520 " "	6 Dec											?	"	"	complete
	(d) AACS 17280 " "	9 Dec												"	"	6750 sq ft completed
	(e) ANGAU S & S 6840 sq ft	9 Dec												"	Natives	5760 "
	(f) HQ 5 Base sub Area 14760 sq ft	"												"	5 BSA pers	9360 "
	(g) RAE Dump. 28,800 sq ft coverage	20Dec												"	17 Fd Coy	22,080 "
E	Hospitalisation															
	2/8 AGH	21Dec												14Feb	12 A Tps Coy	2/3 Rlys
	Other Works															
	Water Point at 064824	18Nov												"		Complete
	Sawmill operations	27Nov													2/2 Fd Coy	59,759 sup ft in period.
	JACQUINOT BAY AREA - 5 Aust Div															193822 sup ft to date
	Rds & Brs															
	(a) Rd MISSION 031827-KALUMALAGI R	5 Dec											7 Jan	"	13 Fd Coy	
	(b) Br WUNUNG R 014843 325' span	10Dec											5 Jan	"	13 Fd Coy	
	(c) Br KALUMALAGI R	13Nov											14Jan	"	"	
	(d) Clearing ALG CUTARP	28Dec											-	"	12 Fd Coy	

BASE AREAS GENERAL.

(a) MORESEY AREA

- (1) Maintenance of roads and installations proceeding.
- (11) Sundry minor works undertaken.

(b) LAE AREA

- (1) RAE resources fully committed on general maintenance of area and minor works.
- (11) Elco light and power installations: Target date for operation of 288 KVA Gen set in new power station has been set down at 20 Jan. Work being expedited on area reticulations, incl new poles and lines in HQ First Aust Army, preparatory to changing over to 3 phase distribution.

(c) MADANG AREA

Maintenance of airstrip roads and installations in progress.

(d) TOROKINA AREA

Progress all projects is satisfactory. AGH ready for occupation by mid Jan.

(e) AITAPE AREA

- (1) All works are practically at a standstill, due to lack of stores and Engineer troops. Little improvement can be seen for at least two months.
- (11) Off loading of stores at beach head giving cause for grave concern. Engineer resources have been directed to endeavour effect improved approach channel for offloading at mouth of RAIHU R. Improvised dredge equipment still waiting shipment from LAE.

(f) JACQUINOT BAY AREA

- (1) Progress has been rapid and very satisfactory.
- (11) Liberty wharf construction: Pile driving in progress. Wharf 15% complete.
- (111) Airstrip: Access road to site thereof is completed. Clearing of site will be completed by 15 Jan.
- (iv) Main roads are 80% complete and should be completed by 20 Jan.
- (v) AGH: Progress is good and EDC is 14 Feb.
- (vi) Coverage: Total progress as follows.

Total coverage completed at 5 Jan	118,350 sq ft.
" " in progress "	34,290 "
" " approved but NOT yet commenced	123,110 "
TOTAL	275,750 "

Brig.
CE First Aust Army.

PART 111

ENGINEER STORES POSITION AS AT 11 JAN 45

1. SHIPMENTS ex AUST

(a) Receipts

	Tons (M)	<u>Remarks</u>
JACQUINOT BAY ex AUST (NATHANIEL (Discharging) MACOM)	1820	Gen Stores
JACQUINOT BAY ex AUST (J CLEMENTS) (Discharging)	86	(Refrigeration & Lighting Sets
TOROKINA ex AUST (JOSIAH EARL) (NOT unloaded)	23	Gen Stores
AITAPE ex AUST (S G REED) (NOT yet unloaded)	23	Mech Eqpt
AITAPE ex AUST (SAN SIMBON) (NOT yet unloaded)	27	Refrigeration
	23	DW Gen Stores
	93	Mech Eqpt

(b) En Route

LAE ex AUST (RIVER FITZROY)	497	Gen Stores
MORESBY ex AUST (CHARON)	10	Gen Stores

(c) Awaiting Shipment

LAE ex AUST	514	Gen Stores Mech Eqpt Bridging
AITAPE ex AUST	647	Refrigeration Gen Stores Bridging
MADANG ex AUST	14	Mech Eqpt Machinery
TOROKINA ex AUST	705	Explosives Gen Stores Bridging
JACQUINOT BAY ex AUST	355	Mech Eqpt Gen Stores
MILNE BAY ex AUST	8	Timber Gen Stores
AUST ex MORESBY	170	Fire Eqpt Mech Eqpt
AUST ex LAE	490	Mech Eqpt

(d) Shipping Allotted

MADANG ex AUST (DUNDELLA) 1/114 KVA Set
NOTE: On arrival to be reconsigned to TOROKINA

2. INTRA NEW GUINEA

(a) Receipts

LAE ex FINSCHHAFEN (MAIWARRA)	394	Brdg Eqpt
JACQUINOT BAY ex LAE (AK 95) (unloading)	108	Timber
AITAPE ex LAE (S G BENSON) (unloaded)	23	Refrigeration
AITAPE ex LAE (MAIWARRA)	219	Gen Stores Spare Parts
TOROKINA ex AUST (GEORGE PEAT)	176	Brdg Eqpt Explosives MK 5 Ferry Sets

AIR MOVEMENT (Cont)

(c) Awaiting Air Movement

TOROKINA ex LAE	CEA 5161	56 lbs	Copper Nails
	CEA 1467	10 "	Spare Parts
	CEA 5160	280 "	Methyl Chloride
	CEA 1030	12 "	Spare Parts
JACQUINOT BAY ex LAE	CEA 143	100 "	Spare Parts
	CEAS 129	250 "	Spare Parts
	CEAS 146	10 "	Spare Parts
	CEAS 132	28 "	Spare Parts
HOLLANDIA ex LAE	CEA 5042	60 "	Spare Parts
AITAPE ex LAE	CEAS 136	15 "	Spare Parts
	CEAS 144	10 "	Spare Parts
	CEAS 129	250 "	Spare Parts

John T. C. pt
for. Brig.
CE First Aust Army.

CONFIDENTIAL

APPX. H

HQ First Aust Army (AIF)
18 Jan 45
CEA 19CS

Subject: FIRST AUST ARMY ENGINEER WEEKLY RESUME

CE 2 Aust Corps (2)
CRE 5 Aust Div
CRE 6 Aust Div
5 Aust CRE (Wks)
11 Aust CRE (Wks)
48 Aust DCRE (Wks)
54 Aust DCRE (Wks)
A/DCRE Area Comd Madang
A/DCRE 6 Aust Base Sub Area
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Gp
CRE 3 Aust Water Tpt Gp
CRE 3 Aust Docks Gp
CE First Aust Army.

Copies to:

E in C (2)
DE in C (2)
SORE Fwd Ech LHQ
Aust LO to CE, GHQ Det APO 500
File (2)
War Diary (2)
Spares (10)

1. Attached hereto is summary of engr activities to
18 Jan 45, as follows:-

Part I	•	Operational
Part II	-	Works Resume
Part III	•	Stores Position

2. Ack,

Blend more 1.66
Brig.
CE First Aust Army.

PART I - OPERATIONS

ENGINEER ACTIVITIES - FIELD FORMATIONS

1. 2 Aust Corps

The coastal road running SOUTH has been extended to the ADELE R. Between the TAVERA RIVER and ADELE RIVER the track has been kept clear of the beach to conceal movement from Jap observation from MOTUPENA PT.

Along the NUMA NUMA trail difficulty has been experienced in keeping the route open for MT, owing to frequent flooding of the LARUMA and DOYABIE RIVERS.

2. 5 Aust Div

A two way road is now complete from TAUT RIVER to SWAN BEACH 020916 through MUNUNG PLANTATION. Construction of access roads in these areas is proceeding. The coral used for surfacing has a high clay content, and is settling very slowly under wet conditions.

Progress on KALUMALAGI RIVER bridge has been slow, owing to deep penetration of piles (up to 36'). It has been necessary to splice piles as Quickway pile driver cannot handle the piles in single lengths.

3. 6 Aust Div

The road to DANMAP RIVER is trafficable by class 9 traffic in all weathers. From DANMAP RIVER to ROCKY PT the road is passable for class 9 traffic by fording the DANMAP RIVER during low flow and travelling along the beach just above the dune line. The track to MATAPAU is passable to jeeps by using the beach beyond ROCKY PT and fording streams. Work in progress concludes the bridging of the DANMAP RIVER, the construction of single track, all weather road from DANMAP to NIAP, and the replacement of semi-permanent bridges between AITAPE and BABIANG.

4. MOVEMENT OF UNITS

4. The following movements of RAE units have been advised since 11 Jan 45.

AUST - JACQUINOT BAY

Det 4 Aust Fd Coy	Arrived	12 Jan,
-------------------	---------	---------

AUST - LAE

Main body 16 Aust Small Ship Coy	Arrived	16 Jan.
Det 1 Aust Water Amb Convoy	"	16 Jan.

HBleed *you Hld*
of Brig.
100 First Aust Army.

WEEKLY RESUME BY CHIEF ENGR FIRST AUST ARMY
Part II - Weekly Progress of Engr Constr (As at 12 Jan45)

Page 1.

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE						DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60			
1	<u>MORESEY AREA</u>										
	<u>Other Works</u>										
	(i) Frt 5.25 CA/AA Bty Emplacements	18Oct	-----	-----	-----	-----	-----	-----	10Jan	11Jan	10 AA & Frt
	- Command Posts	15Apr	-----	-----	-----	-----	-----	-----	20Jan	"	"
	- No 1 & 2 ER Wksp	17Apr	-----	-----	-----	-----	-----	-----	6 Jan	"	"
	- Day BOP	9 May	-----	-----	-----	-----	-----	-----	30Jan	"	"
	- Elec Install	17Apr	-----	-----	-----	-----	-----	-----	"	"	"
	- Accomm Sde A	15Apr	-----	-----	-----	-----	-----	-----	"	"	"
	(ii) Sawmill operations		Continuous						"	"	51 Pd Pk Coy
											21,230 sup ft in week
2	<u>LAE - LABU AREA</u> (Ref Map LAE 1:25,000)										
A	<u>Port Facilities</u>										
	(i) Small Ships Wharf		-----	-----	-----	-----	-----	-----	30Jan	"	20 Pd Coy
B	<u>Bridges</u>										
	Foot Suspension Bridge BUSU R		-----	-----	-----	-----	-----	-----	Indef	"	"
C	<u>Installations</u>										
	(i) LAE Power Station	12Sep	-----	-----	-----	-----	-----	-----	20Jan	"	8 A Tps
	(ii) Reticulation & Services		-----	-----	-----	-----	-----	-----	28 Feb	"	"
E	<u>Hospitalisation</u>										
	(i) 2/7 AGH - Incidental Wks & Maint		Continuous						"	"	"
F	<u>Other Works</u>										
	(i) Constr Adm Buildings	8 Jan	-----	-----	-----	-----	-----	-----	31Jan	"	20 Pd Coy
											1/110x118 1/60x18 prefab bldg.
	(ii) First Aust Army Accon	3 Oct	-----	-----	-----	-----	-----	-----	"	"	"
	(iii) 83 Wing RAAF		-----	-----	-----	-----	-----	-----	Indef	"	8 Army Tps
	(iv) Sawmill operations		Continuous								2/2 Forestry
	(v) Gravel output		Continuous						27Feb		
	(vi) NG Trg School YALU		-----	-----	-----	-----	-----	-----	"	"	"
	(vi) AWAS Barracks	8 Jan	-----	-----	-----	-----	-----	-----	"	"	8 Pd Coy
3	<u>MADANG AREA</u>										
	Sawmill operations		Maintenance Only						"	"	8 Pd Coy
			Continuous								"
4	<u>TOROKINA</u> - 2 Aust Corps										
	Rds & Brs										
	Br REINI R	26Dec	-----	-----	-----	-----	-----	-----	19Jun	13Jan	5 Pd Coy
	Br JABA R	12Jan	-----	-----	-----	-----	-----	-----	4 Feb	"	23 Pd Coy
	Br TAVERA R - jeep br	5 Jan	-----	-----	-----	-----	-----	-----	8 Jan	"	11 Pd Coy
	Rd MAVAVIA R - TAGESSI R		Continuous						"	"	"
	Rd TAGESSI R - JABA R	5 Jan	-----	-----	-----	-----	-----	-----	11Jan	"	"
	Track JABA R - ADELE R	5 Jan	-----	-----	-----	-----	-----	-----	"	"	"
	Rd Rd HEAD-PEARL RIDGE-NUMA NUMA TRAIL	5 Jan	-----	-----	-----	-----	-----	-----	5 Mar	"	"

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE										E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80	90					
4	TCROKINA (Base Area Wks)															
C	Installations															
	(i) BSD Refrig 1/5000 c ft 4/1800 c ft	1 Nov											31Jan	12Jan	6 A Tps	(1/5000 c ft 55% complete
	(ii) AOD 252,000 sq ft coverage	6 Oct												"	"	(4/1800 c ft installed & in use
	(iii) AAD 42,300 sq ft coverage	4 Dec											10Feb	"	"	300x40 & 13/120x40 comp
E	Hospitalisation															22/60x18 1/100x45 4/100x18 comp
	(i) 2/1 AGH	4 Nov											16Jan	"	5&6 A Tps 10(	( 120 bed accom available 13 Jan
F	Other Works														Fd Coy	360 " " 14 Jan
	(i) AACs Ctrs Club	8 Jan											10Feb	"	6 A Tps	600 " " 15 Jan
	(ii) Cordial Factory													"	6 A Tps	Design Complete
	(iii) ANGAU 8640 sq ft coverage	13Nov											Indef	"	"	Held up for materials
	(iv) 1 MechEgptWksp 12600 sq ft cover.	15Dec											"	"	"	Complete
	(v) BIPOD 3360 sq ft coverage	25Dec											Indef		Unit Labour	
	(vi) Sawmill operations														2/2 Forestry	) 59754 sup ft sawn in period
5	AITAPE AREA - 6 Aust Div														5 A Tps	) 1000 sup ft sawn in period
	Rds & Brs															Mill wkd only 2 days
	Br NIGIA R 220'	4 Dec											8 Feb	12Jan	2/1 Fd Coy	
	Br KOROMAL Ck	20Dec											18Jan	"	"	
	Br PINI Ck	7 Dec											16Jan	"	"	
	Br WALGENOL Ck	15Dec											13Jan	"	2/14 Fd Coy	
	6 Brs totalling 350'													"	2/2 Fd Coy	
	Br DANMAP R 300'	2 Jan														
	Rd SUAIN to DANMAP R	2 Jan											22Jan	"	2/2 Fd Coy	
	Rd DANMAP R to ROCKY Pt	2 Jan											17Jan	"	"	
	AITAPE AREA (Base Area Works)															
C	Installations															
	(i) ASC 103,110 sq ft coverage	9 Nov											Indef	"	1 Fd Sqn	Held up awaiting arrival stores
	(ii) AAD 14,400 sq ft coverage	8 Nov											Indef	"	"	No work in past 3 weeks
E	Hospitalisation															
	(i) 2/11 AGH	6 Nov											Indef	"	"	Constr delayed await arriv stores
F	Other Works															
	(i) Canteen Bulk Stores & Bldgs	28 Oct											Indef	"	"	No change since last report
	(ii) Farm Coy. Storage Accom	6 Nov											"	"	Unit	
	(iii) Refrigeration 3/5000 c ft	?											Indef	"	1 Fd Sqn	No change since last report
	(iv) Mobile Laundry	8 Nov											Indef	"		Unit labour, Awaiting material
	(v) 6 RSD ParaHutStoreShed 100'x45'	1 Dec											22Jan	"	Unit labour	

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE							DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70			
5E	(vi) Sawmill output (vii) Gravel output JACQUINOT BAY AREA - 5 Aust Base Sub Area		Continuous							11Jan	2/2 Forestry	11,343 sup ft in period
A	Port Facilities		Continuous							12Jan	2/3 RlyConstr	5,600 cu yds to date.
B	(a) Liberty wharf Brs Rds Airfields	21Dec										Logging of piles in progress. 66 piles driven
	(a) Main Rds Base Area	28Nov								19Jan	12Jan	2/3 RlyConstr
	(b) Clearing Strip	7 Dec								12Jan	"	
C	(c) Bridges Base Area	17Nov								"	17 Fd Coy	
	Installations											
	(a) AAC 94080 sq ft coverage	10Dec								?	"	(progress
	(b) AOD 90,230 sq ft coverage	7 Dec								?	"	43740 sq ft comp. 2250 sq ft in
	(c) AAD 11520 " "	6 Dec								?	"	Ord Serv 43,740 sq ft comp
	(d) AAC 17280 " "	9 Dec								"	"	9630 sq ft in progress
	(e) ANGAU S & S 6840 sq ft	"								"	"	6750 sq ft completed
	(f) HQ 5 Base Sub Area 14760 sq ft	"								"	Natives	5760 " "
	(g) RAE Dump. 28,800 sq ft coverage	20Dec								"	5 BSA pers	11520 " "
	(h) Dental Stores	10Jan								"	17 Fd Coy	22060 " " 6750 sq ft in prog.
E	Hospitalisation									14Jan	12 A Tps Coy	1080 sq ft in progress
	2/8 AGH	21Dec								14Feb	" & 2/3 Rlys	
	Other Works											
	Sawmill operations											
	JACQUINOT BAY AREA - 5 Aust Div	27Nov	Continuous								2/2 Fd Coy	66662 sup feet in period
	Rds & Brs											260484 sup feet to date
	Br KALUMALAGI R 270' long	13Nov								7 Feb	12Jan	13 Fd Coy
	AIG CUTARP	28Dec								"	"	12 Fd Coy
	Access Rds SAMPUN	4 Jan								"	"	"

BASE AREAS GENERAL

(a) MORESEY AREA

- (i) Maintenance of roads and installations proceeding.
- (ii) Sundry minor items new construction only.

(b) LAE AREA

- (i) RAE resources fully committed on maintenance of area and minor works. Any new large project initiated would require reinforcement of engineer tps in the area.
- (ii) Elec Light and Power Installation
Target date for operation new 288 KVA gen set 20 Jan. Technical personnel diverted from other jobs to enable this to be realised. Necessary work on reticulation proceeding.

(c) MADANG AREA

Maintenance of roads and installations only.

(d) TOROKINA AREA

Progress satisfactory. AGH ready for occupation 16 Jan. Other projects well advanced.

(e) AITAPE AREA

- (i) All works in the Base Area are practically at a standstill due to shortage of stores and engr tps for base works.
- (ii) Off loading of stores at beach head is very unsatisfactory and will probably become worse with the incidence of the NW monsoon. Gravel pump for improvised dredge has been shipped and plans are being drawn up for improvising berthing facilities at the RAIHU River. No great material improvement is anticipated prior to 1 March.

(f) JACQUINOT BAY AREA

- (i) Progress has been good but slightly reduced by non arrival of essential stores due to shipping difficulties. Improvement anticipated.
- (ii) Liberty Wharf.
66 piles driven. Good progress being made. 25% complete.
- (iv) Airstrip.
Clearing of site 90% complete. Progress affected by plant breakdown.
- (iv) Main Roads
85% complete. Plant to be diverted to airstrip construction.
- (v) AGH
18.5 % complete. Working party arranged to speed constr.
- (vi) Coverage
Total progress as follows.

Total coverage completed at 12 Jan	143,640 sq ft.
" " in progress "	22,950 "
" " approved but not yet commenced	109,160 "
	<u>275,750 sq ft</u>

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ENGINEER STORES POSITION AS AT 18 JAN 451. SHIPMENTS ex AUST

(a) <u>Receipts</u>	<u>Tons (M)</u>	<u>Remarks</u>
AITAPE ex AUST (SAN SIMON)	23 DW	Gen Stores
(NOT yet unloaded)	93 M	Mech Eqpt. }
AITAPE ex AUST (RIVER DERWENT)	75	Gen Stores
TOROKINA ex AUST (Unloading)	120	Gen Stores & Mech Eqpt
(b) <u>En Route</u>		
LAE ex AUST (RIVER FITZROY)	497	Gen Stores
MORESBY ex AUST (CHARON)	10	Gen Stores
TOROKINA ex AUST (E J O'BRIEN)	100	Gen Stores
(c) <u>Awaiting Shipment</u>		
LAE ex AUST	694	Gen Stores & Bridging
TOROKINA ex AUST	2304	Bridging Mech Eqpt Gen Stores & Lighting Sets
AITAPE ex AUST	1095	Refrigerators Bridging Gen Stores
MADANG ex AUST	24	Gen Stores
JACQUINOT BAY ex AUST	775	Refrigerators & Timber
AUST ex MORESBY	170	Mech Eqpt
AUST ex LAE	490	Mech Eqpt
(d) <u>Shipping Allotted</u>		
LAE ex AUST (RIVER CLARENCE)	41	Explosives & Mech Eqpt
MADANG ex AUST (RIVER CLARENCE)	6	Explosives
AITAPE ex AUST (G M EMBERICOS)	24	Gen Stores

2. INTRA NEW GUINEA

(a) <u>Receipts</u>		
AITAPE ex LAE (MELINGA)	130	Gen Stores
LAE ex MADANG (BIRCHGROVE PARK)	?	Bridging
JACQUINOT BAY ex LAE (COORABIE)	200	ARC Mesh Corr Iron & Timber
TALASEA/HOSKINS ex LAE (NL 132)	234 Lbs.	Spare Parts & Methyl Chloride
(b) <u>En Route</u>		
TALASEA/HOSKINS ex LAE (AK 96)	12	Gen Stores
TOROKINA ex LAE (RANNAH)	20	Gen Stores & Spare Parts

2. INTRA NEW GUINEA. (Cont)

(c) <u>Awaiting Shipment</u>	<u>Tons (M)</u>	<u>Remarks</u>
TOROKINA ex LAE	1165	Gen Stores & N L Pontoons
JACQUINOT BAY ex LAE	610	Gen Stores Timber and N L Pontoons
AITAPE ex LAE	433	Gen Stores
MADANG ex LAE	204	Gen Stores
MORESBY ex LAE	7	Gen Stores
HOLLANDIA ex LAE	1 1/2	Water Fittings
LAE ex MORESBY	576	Gen Stores
AITAPE ex MADANG	200	Mech Eqpt
TOROKINA ex MADANG	130	Mech Eqpt
LAE ex MADANG	160	Mech Eqpt
LAE ex FINSCHHAFEN	300	Bridging
(Additional 400 (M) available 31 Jan)		
(d) <u>Shipping Allotted</u>		
TOROKINA ex LAE (COORABIE)	80	Gen Stores
AITAPE ex LAE (MAINWARRA)	400	Gen Stores
LAE ex MORESBY (RIVER DERWENT)	?	Gen Stores
MADANG ex LAE (MARRAWAH)	70	Gen Stores

3. AIR MOVEMENT

(a) Receipts

LAE ex AUST	{ GEN 8015 GEN 8045	52 Lbs.	Spare Parts
	{ GEN 8031 GEN 7765		
	{ CEAS 30 CEAS 39		

(b) Despatched by Air

MILNE BAY ex MORESBY	30 Lbs.	Fire Fighting Eqpt
JACQUINOT BAY ex LAE	CEAS143 590 Lbs.	Spare Parts
	CEA 5162 CEAS144 CEAS146	
	CEAS132 CEAS168	
AITAPE ex LAE	CEA 5042 CEAS136 75 Lbs.	Spare Parts

(c) Awaiting Air Movement

AITAPE ex LAE	CEAS129 CEAS169 326 Lbs.	Spare Parts
	CEA 5237	
JACQUINOT BAY ex LAE	CEAS164 111 Lbs.	Spare Parts
	CEAS186	
	CEAS91	

John C. pt
Brig.
CE First Aust Army.

CONFIDENTIAL

HQ First Aust Army (AIF)
25 Jan 45
CEA 1983

Subject: FIRST AUST ARMY ENGINEER WEEKLY RESUME

CE 2 Aust Corps (2)
CRE 5 Aust Div
CRE 6 Aust Div
5 Aust CRE (Wks)
11 Aust CRE (Wks)
48 Aust DCRE (Wks)
54 Aust DCRE (Wks)
A/DCRE 6 Aust Base Sub Area
A/DCRE Area Comd MADANG
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Gp
CRE 3 Aust Water Tpt Gp
CRE 3 Aust Docks Gp
CE First Aust Army.

Copies to:

E in C (2)
DE in C (2)
SORE Fwd Ech LHQ
Aust LO to CE, GHQ Det APO 500
File (2)
War Diary
Spares (10)

1. Attached hereto is summary of engineer activities to 25 Jan 45, as follows:-

Part I	-	Operational
Part II	-	Works Resume
Part III	-	Stores Position

2. Ack.

14 Jan 45
Brig.
CE First Aust Army.

PART I - OPERATIONS

4. ENGINEER ACTIVITIES - FIELD FORMATIONS

1. 2 Aust Corps

In the southwest sector, road communications have been extended to the MAWARAKA area, linking up with a "road" system to MOSIEGETTA regarding which no technical information is so far available.

Work in the central (PEARL RIDGE) sector continues as before, and includes the maintenance of the NUMA NUMA trail. Road location from Road Head to MARTINS KNOLL has been completed and pegged, but construction is not at present a requirement. Work on the jeep track from BARGES HILL to MARTINS KNOLL is being maintained to schedule.

2. 5 Aust Div

Forwarded Separately.

3. 6 Aust Div

Forwarded Separately.

MECHANICAL EQUIPMENT

4. The shortage of mech eqpt in the area will soon be eased considerably by the arrival of 24 Mech Eght Pk Coy and 6 Mech Eght Coy. Both these units will be almost completely equipped. The only major deficiencies being all Tournapuls and some of the tractors of 24 Mech Eght Pk Coy.

Action has been initiated to send equipped detachments of 24 Mech Eght Pk Coy to TOROKINA and AITAPE and arrangements are being made to provide reasonable sea transport facilities for eqpt between LAE and NEW BRITAIN.

6 Aust Div have reported numerous failures of HD7 tractor track wheels and transmission seals at 300-400 hrs. Investigation of cause and possible cure is proceeding.

Inspection has now been completed of mech eqpt in all areas under First Aust Army. This has not only given a clear picture of the condition of the items of plant themselves but also of the conditions under which they have to work and the troubles likely to be encountered.

MOVEMENT OF UNITS.

5. The following movements of RAE units have been advised since 18 Jan 45.

AUST - TOROKINA

Det 42 Aust Landing Craft Coy - Dep 19 Jan.

LAE - FINSCHAFEN

5 and 7 Secs, 1 Aust Forest Svy Coy - Arr 21 Jan.

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WEEKLY RESUME BY CHIEF ENGR FIRST AUST ARMY

Part II - Weekly Progress of Engr Constr (As at 18 Jan 45)

Page 1.

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE								E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS	
			10	20	30	40	50	60	70	80					90
1	<u>MORESEY AREA</u>														
	<u>Other Works</u>														
	(i) Frt 5.25 CA/AA Bty Emplacements	18Oct	-----	-----	-----	-----	-----	-----	-----	-----	10Jan	18Jan	10 AA & Frt	Complete (Not to hand	
	+ Command Posts	15Apr	-----	-----	-----	-----	-----	-----	-----	-----	20Jan	"	"	Comp except for glasswk. Material	
	+ No 1 & 2 ER Wksp	17Apr	-----	-----	-----	-----	-----	-----	-----	-----	6 Jan	"	"	No 1 comp. No 2 98%	
	+ Day BOP	9 May	-----	-----	-----	-----	-----	-----	-----	-----	30Jan	"	"	Completion dependent on avail-	
	+ Elec Install	17Apr	-----	-----	-----	-----	-----	-----	-----	-----	"	"	"	(ability of labour & mtl.	
	+ Accom Scale A	15Apr	-----	-----	-----	-----	-----	-----	-----	-----	"	"	"		
	(ii) Sawmill operations		Continuous										51 Fd Pk Coy		
2	<u>LAE - LABU AREA</u> (Ref map LAE 1:25,000)														
A	<u>Port Facilities</u>														
	(i) Small ships wharf		-----	-----	-----	-----	-----	-----	-----	-----	30Jan	"	20 Fd Coy		
B	<u>Bridges</u>														
	Foot Suspension Bridge BUSU R		-----	-----	-----	-----	-----	-----	-----	-----	28Feb	"	"	Commenced work on new site	
C	<u>Installations</u>														
	(i) LAE Power Station	12Sep	-----	-----	-----	-----	-----	-----	-----	-----	20Jan	"	8 A Tps	} vide page 4	
	(ii) Reticulation and Services		-----	-----	-----	-----	-----	-----	-----	-----	28Feb	"	"		
	(iii) Refrigeration	13Jan	-----	-----	-----	-----	-----	-----	-----	-----	Indef	"	"		
E	<u>Hospitalisation</u>														
	(i) 2/7 AGH - Incidental Wks & Maint		Continuous										"	"	
	(ii) Constr Adm Bldgs	8 Jan	-----	-----	-----	-----	-----	-----	-----	-----	31Jan	"	20 Fd Coy		
F	<u>Other Works</u>														
	(i) HQ First Aust Army Acen	3 Oct	-----	-----	-----	-----	-----	-----	-----	-----		"	"	Continuous	
	(ii) 83 Wing RAAF		Continuous								Indef	"	"	8 A Tps	Adm bldgs completed
	(iii) Sawmill operations		Continuous										"	2/2 Forestry	174,889 sup ft during week
	(iv) Gravel output		Continuous										"	"	1781 cu yds during week
	(v) NG Trg School YALU		Continuous								20Jan	"	"	"	(clearing only.
	(vi) AWAS Barracks	8 Jan	-----	-----	-----	-----	-----	-----	-----	-----	"	"	8 Fd Coy	Supervision native labour for	
3	<u>MADANG AREA</u>														
	Sawmill operations		Maintenance only										"	"	3960 sup ft during week
			Continuous										"	"	
4	<u>TOROKINA</u> - 2 Aust Corps														
	<u>Rds & Brs</u>														
	REINI R Br - Constr Class 9 timber	26Dec	-----	-----	-----	-----	-----	-----	-----	-----	19Jan	19Jan	5 Aust Fd Coy	Bracing to be completed	
	SECESSI R Br - Constr new pier & breakwater	10Jan	-----	-----	-----	-----	-----	-----	-----	-----	15Jan	"	"		
	MAVAVIA-JABA Rd, Dragging & grading		Continuous										"	"	

Part II

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE										DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	20	30	40	50	60	70	80	90	E D O			
4	JABA SOUTH Track, coast to MR794737 C1 1 TUJU R Br MR 781711 - Additional span and wing walls	3 Jan 16 Jan 19 Jan	---	---	---	---	---	---	---	---	---	1 Feb 19 Jan 22 Jan	19 Jan " "	11 Fd Coy " "	Jeeps & trailers only 25 Jan Scour of N bank necessitated aadl span, new piles for 2nd span & wing walls
	ADELE R-HUPAI SAPANI R Coast Track C1 B2	12 Jan	---	---	---	---	---	---	---	---	---	17 Jan	"	"	Wk proceeded as permitted by Inf Adv. Jeeps and trailers only
	HUPAI SAPANI R MR 765618														
	(a) Coconut log foot crossing	18 Jan	---	---	---	---	---	---	---	---	---	18 Jan	"	"	Class 2, 3 span.
	(b) " " piled Jeep Br	18 Jan	---	---	---	---	---	---	---	---	---	20 Jan	"	"	Widening clear passing bays clear
	Track Maint JABA LAGOON-HUPAIRR		Continuous												logs as necessary
	Mk 5 Pontoon Ferry over JABA R	12 Jan	---	---	---	---	---	---	---	---	---	17 Jan	20 Jan	23 Fd Coy	(reduce depth of crossings
	Piled Br over JABA R	13 Jan	---	---	---	---	---	---	---	---	---	7 Feb	"	53 Fd Pk Coy	Normal maint and experiments to
	NUMA NUMA Trail	21 Dec	Continuous										19 Jan	16 Fd Coy	Located. Suspended
	PEARL RIDGE Road (Location of)	5 Jan	---	---	---	---	---	---	---	---	---	5 Feb	"	"	
	Jeep track ARTY RIDGE	5 Jan	---	---	---	---	---	---	---	---	---	5 Feb	"	"	
4	TOROKINA (Base Area Works)														
C	Installations														
	(i) BSD Reffrig 1/5000 c ft 4/1800 c ft	1 Nov	---	---	---	---	---	---	---	---	---	31 Jan	"	6 A Tps	1/5000 c ft 58% complete
	(ii) AOD 252,000 sq ft coverage	8 Oct	---	---	---	---	---	---	---	---	---		"	"	4/1800 c ft installed & in use
	(iii) AAD 42,300 sq ft coverage	4 Dec	---	---	---	---	---	---	---	---	---	10 Feb	"	"	300x40 & 12/120x40 complete
F	Hospitalisation														
	(i) 2/1 AGH	4 Nov	---	---	---	---	---	---	---	---	---	31 Jan	"	5 & 6 A Tps & 10 Fd Coy	29/60x18 1/100x45 4/100x18 comp Operating since 16 Jan as 600 bed hospital
F	Other Works														
	(i) AACCS Ors Club	8 Jan	---	---	---	---	---	---	---	---	---	10 Feb	"	6 A Tps	Site cleared and levelled
	(ii) Cordial Factory		---	---	---	---	---	---	---	---	---		"	6 A Tps	Design Comp. Not yet commenced
	(iii) ANGAU 8640 sq ft coverage	13 Nov	---	---	---	---	---	---	---	---	---	Indef	"	"	Held up for materials
	(iv) SIPOD 3360 sq ft coverage	25 Dec	---	---	---	---	---	---	---	---	---	Indef	"	Unit Labour	
	(v) Sawmill operations		Continuous												49629 sup ft sawn in period
5	AITAPE AREA - 6 Aust Div.														
	Forwarded separately														
5	AITAPE AREA (Base Area Works)														
C	Installations														
	(i) ASC 103,110 sq ft coverage	9 Nov	---	---	---	---	---	---	---	---	---	Indef	"	1 Fd Sqn	Held up awaiting arrival stores
	(ii) AAD 14,400 sq ft coverage	8 Nov	---	---	---	---	---	---	---	---	---	Indef	"	"	No progress due lack stores and labour

SERIAL	WORK	DATE COMMENCED	PERCENTAGE COMPLETE							e d c	DATE OF REPORT	UNIT EXECUTING	REMARKS
			10	30	50	70	90						
5E	Hospitalisation												
F	(i) 2/11 AGH	6 Nov								Indef	19Jan	1 Fd Sqn	Constr delayed await arrival stores
	Other Works												
	(i) Canteen Bulk Stores & Bldgs	30 Oct								"	"	"	No change since last report
	(ii) Farm Coy. Storage Accom	6 Nov								"	"	Unit	" " " " "
	(iii) Refrigeration 3/5000 c ft	?								"	"	1 Fd Sqn	No change since last report
	(iv) Mobile Laundry	8 Nov								"	"		Unit labour. Awaiting material
	(v) 6 RSD Para Hut Store Shed 100'x45'	1 Dec								22Jan	"	Unit Labour	28,111 s/ft in period. Productn reduced by logging difficulties
	(vi) Sawmill output										"	2/2 Forestry	6,800 cu yds to date
	(vii) Gravel output										"	2/3 Rly Constr	
	JACQUINOT BAY AREA (5 Aust Base Sub Area)												117 piles driven.
A	Port Facilities												Logging of piles in progress
	(a) Liberty Wharf	21 Dec								16Jan	"		
B	Rds Brs Airfields												
	(a) Main Rds Base Area	28 Nov								19Jan	19Jan	2/3 Rly Constr	Progress affected by necessity to divert plant to airfd constr
	(b) Clearing Strip	7 Dec								"	"		RAAF party now in area. Final design in preparation. All avail plant diverted to task.
	(c) Bridges Base Area	17 Nov									"	17 Fd Coy	
C	Installations												
	(a) AASC 94080 sq ft coverage	10 Dec								16 Feb	"	"	48240 sq ft comp. 6750 in progress
	(b) AOD 90,230 sq ft coverage	7 Dec								"	"	"	Ord Serv 52570 sq ft complete
	(c) AAD 11520 sq ft coverage	6 Dec								"	"	"	1800 sq ft in progress
	(d) AACS 17280 sq ft coverage	9 Dec								"	"	"	6750 sq ft completed
	(e) ANCAU S & S 6840 sq ft	"								"	"	Natives	5760 " completed
	(f) HQ 5 Aust Base Sub Area 14760 sq ft	"								"	"	5 BSA Pers	Complete
	(g) RAE Dump. 28,800 sq ft coverage	20 Dec								"	"	17 Fd Coy	22050 sq ft completed 6750 in progress
	(h) Dental Stores	10 Jan								14 Jan	"	12 A Tps Coy	Completed
E	Hospitalisation												
	2/8 AGH	21 Dec								14 Feb	"	12 A Tps & 2/3 Rly Constr	Completion date dependent upon arrival of stores
	Other Works												
	Sawmill operations	27 Nov										2/2 Fd Coy	76302 sup ft in period
	JACQUINOT BAY AREA - 5 Aust Div												
	Forwarded separately.												

BASE AREAS GENERAL(a) MORESEY AREA

- (i) Maintenance of roads and installations proceeding.
- (ii) Sundry minor items new construction only.

(b) LAE AREA

- (i) RAE resources fully committed on maintenance of area and minor works. Any new large project would require reinforcement of engineer troops in the area.
- (ii) Elec Light and Power Installation
288 KVA gen set on line 22 Jan. Work on reticulation proceeding.

(c) MADANG AREA

Maintenance of roads and installations only.

(d) FOROKINA AREA

Progress satisfactory. AGH ready for occupation 16 Jan. Other projects well advanced. Some delay due to insufficiency of engr stores account shipping difficulties.

(e) AITAPE AREA

- (i) All works in the Base Area are practically at a standstill due to shortage of stores and engr tps for base works. Additional engr forces expected to be available approx 10 Feb.
- (ii) Off loading of stores at beach head is very unsatisfactory and will probably become worse with the incidence of the NW monsoon. Gravel pump for improvised dredge has arrived and arrangements are being made to mount it on suitable barge. Plans are being drawn up for improvising berthing facilities at the RAIHU River. No great material improvement is anticipated prior to 1 March.

(f) JACQUINOT BAY AREA

- (i) Progress has been good but slightly reduced by nonarrival of essential stores due to shipping difficulties. Improvement anticipated.
- (ii) Liberty Wharf
117 piles driven. Good progress being made. 35% complete.
- (iii) Airstrip
Clearing of site 95% complete. Design in hand in conjunction with RAAF technical advisers. All available plant diverted to task.
- (iv) Main Roads
90% complete. Plant to be diverted to airstrip construction.
- (v) AGH
36% complete. Completion of essential buildings dependent upon arrival stores delayed by shipping difficulties.
- (vi) Coverage
Total progress as follows.

Total coverage completed	at 16 Jan	161,370 sq ft
" " in progress	" "	15,300 "
" " approved but not yet commenced	" "	99,080 "
		<u>275,750 sq ft</u>

As per original
Brig.
CE First Aust Army.

PART 111

ENGINEER STORES POSITION AS AT 25 JAN 45

1. SHIPMENTS ex AUST.

Tons (M) Remarks

(a) Receipts

NIL

(b) En Route

LAE ex AUST (RIVER FITZROY)	460	Gen Stores
LAE ex AUST (RIVER CLARENCE)	47	Mech Eqpt & Explosives
AITAPE ex AUST (G M EMBIRICOS)	84	Gen Stores
TOROKINA ex AUST (E J O'BRIEN)	100	Gen Stores
MORESBY ex AUST (CHARON)	10	Gen Stores

(c) Awaiting Shipment

LAE ex AUST	1579	Gen Stores & Bridging
AITAPE ex AUST	3075	Gen Stores Mech Eqpt & Bridging
AUST ex LAE	200	Mech Eqpt (150(M) available immediate shipment)
TOROKINA ex AUST	3315	Bridging Mech Eqpt Gen Stores
AUST ex MORESBY	170	Mech Eqpt
JA CQUINOT BAY ex AUST	1074	Gen Stores Mech Eqpt
MADANG ex AUST	22	Gen Stores

(d) Shipping Allotted

NIL.

2. INTRA NEW GUINEA

(a) Receipts

TOROKINA ex LAE (RANNAH)	20	Gen Stores Spare Parts
MADANG ex LAE (MARRAWAH)	80	Gen Stores
TALASEA/HOSKINS ex LAE (AK 96)	12	Gen Stores
TALASEA/HOSKINS ex LAE (TUNG SONG)	1	Coverage Stores

(b) En Route

LAE ex MADANG (MARRAWAH)	60	Gen Stores
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(c) Awaiting Shipment

TOROKINA ex LAE	1074	Gen Stores
JACQUINOT BAY ex LAE	750	Gen Stores
AITAPE ex LAE	593	Gen Stores
MADANG ex LAE	125	Gen Stores

2. INTRA NEW GUINEA

(c) Awaiting Shipment (Cont)

	Tons (M)	Remarks
HOLLANDIA ex LAE	1 1/2	Water Piping & Fittings
LAE ex MORESBY	576	Gen Stores
AITAPE ex MADANG	200	Concrete Mixers
TOROKINA ex MADANG	130	Mech Eqpt
LAE ex MADANG	160	Mech Eqpt
LAE ex FINSCHHAFEN	300	Bridging Eqpt.
(Additional 400 (M) available for movement 31 Jan)		

(d) Shipping Allotted

JACQUINOT BAY ex LAE (JUBAL EARLY)	610	Gen Stores & NL Pontoons
AITAPE ex LAE (MAIWARRA)	400	Gen Stores
TOROKINA ex LAE (RANNAH)	4	Gen Stores
LAE ex MORESBY (RIVER DERWENT)	?	Gen Stores

3. AIR MOVEMENT

(a) Receipts

LAE ex AUST	(CEN 8021)	4 Lbs.	Spare Parts
MADANG ex LAE		?	Spare Parts
MORESBY ex LAE	(CEA 940)	?	Spare Parts
TOROKINA ex LAE	CEA 5148	CEA 1467 ?	Spare Parts
	CEA 1035	CEA 5178	CEA 5171
		CEA 5156	

(b) Despatched by Air

HOLLANDIA ex LAE	CEA 5160	280 Lbs	Refrigerant
AITAPE ex LAE	CEA 5198	178 "	Elect Lamps
	CEA 5237	CEAS 169	Spare Parts
JACQUINOT BAY ex LAE	CEA 5198	543 Lbs.	Engr Stores Vocab
	CEAS 164	CEA 91	CEAS 186
	CEAS 189	CEAS 218	CEAS 188
TOROKINA ex LAE	CEA 171	46 Lbs	Spare Parts
	CEA 154		
MORESBY ex LAE	CEA 170	832 Lbs.	Spare Parts
	CEAS 216	CEAS 181	
BRISBANE ex LAE	CNE 395V	170 "	Tropical Plants

(c) Awaiting Air Movement

AITAPE ex LAE	CEAS 129	CEAS 169	1030 Lbs.	Spare Parts
	CEA 5185	CEAS 213	CEA 5296	
HOLLANDIA ex LAE	CEAS 194	1100 Lbs	Electrical Fittings	
TOROKINA ex LAE	CEAS 156	233 Lbs	Spare Parts	
	CEAS 204	CEAS 223		
	CEAS 230	CEA 5276		

