

514149

AUGUST TO
SEPTEMBER 1944

ORIGINAL

AUSTRALIAN WAR MEMORIAL
ACCESS STATUS
OPEN

CHIEF ENGINEER BRANCH
H.Q. NEW GUINEA FORCE

WAR DIARY or INTELLIGENCE SUMMARY.

(Erase heading not required.)

Army Form C, 2118.
(adapted.)

Unit CE BRANCH HQ NGF

Date and Time.—From 1 AUG 44 To 31 Aug 44

[illegible]

Appendix A(1)

SECRET
COPY NO 27
3 Aug 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 3 Aug 44, are attached.

J B M. M. May
(A G TORR) Brigadier
Chief Engineer

DISTRIBUTION

<u>By G (SD)</u>	<u>Copy</u>
PA to C in C	1
LHQ	2
Adv LHQ	3 - 4
File	5

<u>By CE NGF</u>	<u>Copy</u>
CRE 3 Aust Div	6
CRE 5 Aust Div	7
5 Aust CRE (Wks)	8
48 Aust DCRE (Wks)	9
53 Aust DCRE (Wks)	10
OC 9 Aust Wksp & Pk Coy	11
2/1 Aust CRE Forestry	12
1 Aust CRE NG Forests	13
CRE 1 Aust Water Tpt Gp	14
E-in C	15 - 16
D/E in C	17 - 18
Aust Engr LO GHQ	19
File	20
War Diary	21 - 23
Spares	24 - 29

SECRET
CCPY NO 27
3 Aug 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART II - WORKS

1. Detailed progress is submitted fortnightly.
2. NEW WORKS APPROVED
LAE - Ref Map LAE 1:25,000
 - (1) LIBERTY Wharf, small ship wharf and barge landing stages at MR 660390. - Q 1519 of 31 Jul 44
3. NEW WORKS COMMENCED
LAE
 - (1) ANGAU Stores - 6/80' x 20' Buts - 26 Jul - 5%
 - EDC 20 Aug 44.
 - (11) LIBERTY Wharf at MR 660390 - transferring materials 31 Jul 44.

MADANG

- (1) No 2 Wharf - 23 Jul - 5% - EDC 21 Aug 44

MORESEBY

- (1) Installations 11 KV - 200 KVA Transformers. MORESEBY Power House 23 Jul - 25% - Part time by Maint Crew.

4. WORKS COMPLETED
LAE - WAI

- (1) 5 Aust Fd Bakery - 26 Jul 44
- (11) 2/7 AGH Psychiatric Ward - 25 Jul 44
- (111) NG Sigs Acen - 25 Jul 44
- (iv) LAE Airstrip Offices - 28 Jul 44
- (v) Salvage Road - 27 Jul 44

MADANG

- (1) Liberty Wharf 26 Jul 44 (first ship berthed 24 Jul 44)
- (11) RAAF NComd Acen - 28 Jul 44.

5. GENERAL
WAI AREA

- (1) WAI - LABU Rd open to convoys 3 Aug 44.

MADANG

- (1) 2/11 AGH - 35% excluding acen for AAMWS, and sleeping quarters for AAMWS and AANS.
- (11) 5000 cu ft Refrig. 80%
- (111) Airstrip (a) 4100' runway, gravelling 45% being used by Piper Cubs, EDC 14 Aug. (b) 3600' length of runway 58% gravelled, EDC 14 Aug.

Robert S. Shaker
Maj.
for CE NG Force.

NEW GUINEA FORCE

SECRET

COPY NO. 27

3 Aug 44

ENGINEER WEEKLY RESUMEPART II ENGINEER STORES POSITION AS AT 2 AUG 441. ENGINEER STORES - SHIPMENTS EX AUST

a.	<u>Receipts</u>	<u>Tons (M)</u>	
	LAE ex SYDNEY (ALEXANDER WOOLCOTT)	155	DW
	MADANG ex SYDNEY (LANE ORLAS)	100	M
b.	<u>En Route</u>		
	MADANG ex SYDNEY (N J COLEMAN)	410	
c.	<u>Space Allotted or Awaiting Shipment</u>		
	PORT MORESBY ex BRISBANE	10	General stores
	PORT MORESBY ex SYDNEY	163	incl 100 tons DW Cement
	MILNE BAY ex SYDNEY	20	General stores
	LAE ex SYDNEY	200	incl 200 tons DW iron corr & plain

2. INTRA NEW GUINEA

a.	<u>Receipts</u>		
	LAE ex PORT MORESBY (J A JOHNSON)	27.5	DW
	LAE ex MILNE BAY (COORABIE)	52.5	DW
	LAE ex MILNE BAY (KILTORE)	22.5	DW
	LAE ex MADANG (HUGHES)	5	DW
	MADANG ex ROSSILLY (PING WO)	166	M 59,000 sup ft timber
	MADANG ex MILNE BAY (CAROO)	54	DW
b.	<u>En Route</u>		
	NIL		
c.	<u>Awaiting Shipment</u>		
	LAE ex PORT MORESBY	910	M
	LAE ex MILNE BAY	2191	M
	LAE ex BUNA	2540	M
	MADANG ex PORT MORESBY	110	M
	MADANG ex MILNE BAY	103	M
	MADANG ex BUNA	36	M
	MADANG ex LAE	345	M

3. SHIPMENTS TO AUST

a.	<u>En Route</u>		
	NIL		
b.	<u>Awaiting shipment</u>		
	SYDNEY EX PORT MORESBY	116	Mech Plant
	SYDNEY ex MILNE BAY	228	" "

W. G. Cahill
Brigadier
Chief Engineer

SECRET
COPY NO 27
3 AUG 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART III - INTELLIGENCE RESUME FOR WEEK ENDING 3 AUG 44

GENERAL

1. Rainfall

IAT Area.

July 20.69 inches on 22 days.
Maximum day fall 5.19 inches on 18th.
Figures from records :-

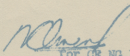
	<u>INCHES</u>			<u>AVERAGE RAIN DAYS</u>
	<u>AVERAGE</u>	<u>MAX</u>	<u>MIN</u>	
July	17.47	28.41	8.91	20
Aug	18.85	28.95	11.92	21

2. WAI IABU ROAD

The above road was open to convoys as from 2 Aug.

3. MOVEMENT OF OFFICERS

Brig J MANN arrived from the Mainland on 3 Aug.


Capt
For CE NG Force

Appendix A(2)

SECRET
COPY TO 26
10 AUG 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 10 Aug 44, are attached.

J Mann

(J MANN) Brigadier
Chief Engineer.

DISTRIBUTION

<u>By G (SD)</u>	<u>Copy</u>
PA to C in C	1
LHQ	2
Adv LHQ	3 - 4
File	5
 <u>By CE NGF</u>	 <u>Copy</u>
CRE 3 Aust Div	6
CRE 5 Aust Div	7
5 Aust CRE (Wks)	8
48 Aust DORE (Wks)	9
53 Aust DORE (Wks)	10
OC 9 Aust Wksp & Pk Coy	11
2/1 Aust CRE Forestry	12
1 Aust CRE NG Forests	13
CRE 1 Aust Water Tpt Gp	14
E-in C	15 - 16
D/E in C	17 - 18
Aust Engr LO GHQ	19
File	20
War Diary	21 - 22
Spares	24 - 29

FORTNIGHTLY RESUME BY CHIEF ENGR NG FORCE

SECRET
COPY NO 26 Page 1.
10 Aug 44

PART I - PROGRESS OF WORKS.

SERIAL	PRIORITY	WORK	DATE Commenced	PERCENTAGE COMPLETE						R D O	DATE OF REPORT	UNIT EXECUTING	REMARKS
				0	25	50	75	100	125				
1		<u>MORGESBY AREA</u>											
1		<u>ROB & BRS</u>											
		(1) NAPA NAPA Rd - Single MT	2 May							?	4 Aug	4 ME-2/IRCO	Complete
		" " " - Double MT											
2		<u>OTHER WORKS</u>											
		(1) HT Retio - Addl 11kVA Transf KUNEDAH	6 Jul							?	"	9 Wksp & R	Spare time job maint crew
		" " " 5 KVA								?	"	"	"
41		(11) Frt 5.25 GA/AA Bty - emplacements	18 Oct							?	"	10 AA & Ext	
42		" " " Comd Post	15 Apr							?	"	"	
43		" " " Shell & Cartridge Stor	1 Feb							14 Jul	"	"	Complete
44		" " " No 1 & 2 E Rm & Artif Wksp	17 Apr							?	"	"	
45		" " " Day BOP	9 May							?	"	"	
46		" " " Accommodation	15 May							?	"	"	
2		<u>MILNE BAY AREA</u>											
3		<u>NAVAL</u>											
41		(1) Slipway - ways	1 May							31 Jul	9 Jul	5 A Tps	No Report
3		<u>BUNA</u>											
		Dismantling installations & maint only											
4		<u>WAW - BULOLO AREA</u>											
4		<u>AIRDRONES</u>											
		(1) BULOLO - Maint only								?	4 Aug	23 Fd Coy	Strip 60' x 1100' Serviceable
5		<u>ROB & BRS</u>											
		(1) EDRS Ck - WAW - LABU Rd maint											
		" " Repairs Flood Damage	18 Jul							11 Aug	"	3 Div	Road closed till further notice
		" " Deviations from Flood area	2 Aug							10 Oct	"	"	
5		<u>OTHER WORKS</u>											
		(1) Scale 'A' BULOLO - prefabrication	25 May							1 Aug	"	23 Fd Coy	Add requirements
		(ii) GOC - Mess & Acon	21 Jun							?	"	12 Fd Coy	Balance of timber not yet received
		(iii) 5 Aust Fd Bakery	6 Jun								"	53 Fd Pk	Complete
5		<u>LAE - LABU AREA</u>											
		(1) Liberty Wharf (Milford Haven)	27 Jun							?	"	10 Fd Coy	Preliminary work only
12		Floating dock - LABU - Small Craft	22 Jun							6 Sep	"	8 A Tps	

Fortnightly Resume by Chief Engr NG Force

SECRET
COPY NO 26 Page 2
10 Aug 44

PART II - PROGRESS OF WORKS.

Serial	Priority	WORK	DATE COMENCED	PERCENTAGE COMPLETE												DATE OF REPORT	UNIT EXECUTING	REMARKS
				1	2	3	4	5	6	7	8	9	10	11	12			
5B		<u>RDS & BRS</u>																
		(i) Access Rd Salvage area	20Jul	—	—	—	—	—	—	—	—	—	—	—	—	27Jul	4Aug	No work during period
		(ii) 6 Aust Farm Coy Rd	"	—	—	—	—	—	—	—	—	—	—	—	—	16Aug	"	No work during period due to hwy rain
	O	<u>INSTALLATIONS</u>																
		(i) 103 FOD - Hardstandings	27Mar	—	—	—	—	—	—	—	—	—	—	—	—	?	"	No wk in period
	Al	(ii) RAE Dump Bldgs	3Jun	—	—	—	—	—	—	—	—	—	—	—	—	15Sep	"	58 Fd Pk
		(iii) 2/7 AWE Wksp Hutting	13Jun	—	—	—	—	—	—	—	—	—	—	—	—	8Aug	"	8 A Tps
		(iv) Aerated Water Factory	27Jun	—	—	—	—	—	—	—	—	—	—	—	—	4Aug	"	20 Fd Coy
		(v) NG Records Acon	11Jul	—	—	—	—	—	—	—	—	—	—	—	—	19Aug	"	38 AWC
		(vi) Refrig - 20,000 cu ft	20Mar	—	—	—	—	—	—	—	—	—	—	—	—	22Jul	"	20 Fd Coy
		(vii) Diesel Engine Installation		—	—	—	—	—	—	—	—	—	—	—	—	7Aug	"	" " "
	E	<u>HOSPITALISATION</u>																
		(i) 2/7 AGH Psychiatric ward	3Jul	—	—	—	—	—	—	—	—	—	—	—	—	25Jul	"	10 Fd Coy
		(ii) Water Supply 2/7-2/8 AGH increased stores	1Jul	—	—	—	—	—	—	—	—	—	—	—	—	9Aug	"	8 A Tps
		(iii) AAMWS 2/7&2/8 kitchen, ablution etc	24Jul	—	—	—	—	—	—	—	—	—	—	—	—	12Aug	"	20 Fd Coy
	F	<u>OTHER WORKS</u>																
	Al	(i) POW Compound	5Jul	—	—	—	—	—	—	—	—	—	—	—	—	29Jul	"	10 Fd Coy
	Al	(ii) NG Sig Bldgs	6Jul	—	—	—	—	—	—	—	—	—	—	—	—	25Jul	"	"
	Al	(iii) LAE Airstrip Water Supply	23Jun	—	—	—	—	—	—	—	—	—	—	—	—	19Aug	"	8 A Tps
		(iv) ORS Club	20Jul	—	—	—	—	—	—	—	—	—	—	—	—	26Sep	"	"
		(v) DID - LABU	25May	—	—	—	—	—	—	—	—	—	—	—	—	20Aug	"	38 AWC
		(vi) ANGAU S & S 6/80' x 20' Huts	26Jul	—	—	—	—	—	—	—	—	—	—	—	—	30Aug	"	10 Fd Coy
6		<u>WADANG AREA</u>																
	A	<u>PORT FACILITIES</u>																
	Al	(i) Liberty Berth	3May	—	—	—	—	—	—	—	—	—	—	—	—	26Jul	28Jul	2/4 Fd Sqn
		(ii) " " No 2 Wharf	23Jul	—	—	—	—	—	—	—	—	—	—	—	—	21Aug	"	"
		<u>AIRDROMES</u>																
		(i) WADANG - 3600' x 100' gravelling	4Jul	—	—	—	—	—	—	—	—	—	—	—	—	?	"	"
		" " extn 500' x 100'	"	—	—	—	—	—	—	—	—	—	—	—	—	14Aug	"	2/1 MCC

PART II - PROGRESS OF WORKS.

FORTNIGHTLY RESUME BY CHIEF ENGR NG FORCE

SECRET
COPY NO. 26 Page 3
10 Aug 44

SERIAL	PRIORITY	WORK	DATE COMMENCED	PERCENTAGE COMPLETE												DATE OF REPORT	UNIT EXECUTING	REMARKS
				1	2	3	4	5	6	7	8	9	10	11	12			
68		RDS & ERS																
		(i) MADANG - ALEX Rd (13 1/2 M)																
		MEIRO - ALEX Section clearing	8 May													21 Jul	5 Aug	4 Fd Coy
		" " " forming	"													26 Aug	"	15 Fd Coy
		" " " gravelling	"													"	"	1 pl 8 Fd Coy
		(ii) Militat Ptn Rd Clearing	21 Jul													28 Jul	4 Fd Coy	
		forming	"													"	"	
		(iii) VITA Ptn Rd	9 Jul													5 Aug		
		INSTALLATION																
A1		(i) ASD - Storage Accon 14 sheds	22 Jun													7 Aug	28 Jul	2/4 Fd Stp
A1		(ii) FOD - 43 sheds	7 Jul													22 Aug	"	"
A1		(iii) FAD - 16 Huts	20 Jul													24 Aug	"	5 A Tps
A1		(iv) Fd Bakery	17 Jul													2 Aug	"	"
A1		(v) RAE Dump 10 sheds	4 Jun													10 Aug	"	"
		(vi) Refrig - Ice Making Plant	30 Jun													26 Jul	"	55 Fd Pk
		" " 5000 Cu ft	5 Jul													7 Aug	"	2/4 Fd Stp
		(vii) BELIEU Is Fd Bakery	20 Jul													4 Aug	"	55 Fd Pk
		HOSPITALISATION																
A1		(i) CCS - ALEX SHAFTS	5 Jun													6 Aug	"	4 Fd Coy
A1		(ii) 2/11 AGH Wards Etc	4 Jul													20 Aug	"	8 Fd Coy
		(iii) " Sewerage	20 Jul													3 Aug	"	5 A Tps
F		OTHER WORKS																
		(i) Water Point at Wharf	3 Jul													30 Jul	"	2/4 Fd Stp
		(ii) RAAF HQ N Comd Accon	7 Jul													9 Aug	"	8 Fd Coy
		(iii) Electric Power & lighting	8 Jul													"	"	5 A Tps
		(iv) Sawmill Production Kar Kar	19 Jun													"	"	2/2 Forestry
																		10000 Super for week. 28000 super to date

WORKING PARTIES SUPPLIED RAE DURING FORTNIGHT

SECRET
COPY NO 26
10 AUG 44

AREA	TROOPS		NATIVES		AV HOURS Available		REMARKS
	Requisitioned Man	Supplied Man Days	Requisitioned Man	Supplied Man Days	Troops P/Day	Natives P/Day	
MORESBY	430	399	440	428	7½	7½	Fortnight ending 4 Aug.
WAU (incl Rd)	82	82	1324	1324			Less WAU for week ending 4 Aug.
LAE	113	113	2940	2940	7½	7½	Fortnight ending 4 Aug.
MADANG	1320	1270	1493	1407	7½	7½	Fortnight ending 28 Jul.
	1945	1864	6197	6099	7½	7½	

W. C. West, Capt
for CE HQ Force

NEW GUINEA FORCEENGINEER WEEKLY RESUMESECRET
COPY NO 26
10 Aug 44PART II ENGINEER STORES POSITION AS AT 9 AUG 441. ENGINEER STORES - SHIPMENTS EX AUST

a. Receipts Tons (M)

NIL

b. En-route

MADANG ex SYDNEY (M J COLEMAN)	410	
PORT MORESBY ex SYDNEY (P SYLVESTER)	17	
LAE ex BRISBANE (W POINT)	575	General stores

c. Awaiting shipment

PORT MORESBY ex SYDNEY	263	inc 100 DW cement
" " ex BRISBANE	10	
MILNE BAY ex SYDNEY	20	
LAE ex SYDNEY	300	inc 200 DW cement

2. INTRA NEW GUINEA

a. Receipts

MADANG ex PINSCHHAFEN (D HUGHES)	3	
" " KAR KAR (L ORMAC & BARGE)	128 DW	Timber
LAE ex MILNE BAY (KINSTON)	7.5 DW	

b. En-route

MADANG ex LAE (F PEATE)	38.3 DW	
LAE ex PORT MORESBY (M KIMNEY)	50 (M)	Power house plant

c. Awaiting shipment

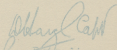
MADANG ex LAE	137 (M)	
" " PORT MORESBY	110	includes 5000 cu ft refrigerator
" " BUNA	87	Aust H/wood, 5000 cu ft refrigerator
LAE ex PORT MORESBY	863	General stores
" " BUNA	2540	Mechanical equipment
		Bridging, General

SHIPMENTS TO AUSTRALIAEn-route

NIL

b. Awaiting shipment

SYDNEY ex BUNA	50	Mechanical plant Ammonia cylinders
----------------	----	---------------------------------------


J. H. C. Smith
Chief Engineer

SECRET
COPY NO 26
10 AUG 44

Appendix A (3)

SECRET
COPY NO 28
17 Aug 44

NEW GUINEA FORCE
ENGINEER WEEKLY REPORT

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 17 Aug 44, are attached.

J B Mearns JLC
J B Mearns J Brigadier
Chief Engineer

DISTRIBUTION

<u>By C (CD)</u>	<u>COPY</u>
PA to C in C	1
ENG	2
Adv LHQ	3 - 4
File	5

<u>By CE NGF</u>	<u>COPY</u>
CRE 3 Aust Div	6
CRE 5 Aust Div	7
5 Aust CRE (Wks)	8
48 Aust DCRE (Wks)	9
53 Aust DCRE (Wks)	10
OC 9 Aust Whap & Pk Coy	11
2/1 Aust CRE Forestry	12
1 Aust CRE NG Forestry	13
CRE 1 Aust Water Ept Sp	14
E in C	15 - 16
D/E in C	17 - 18
Aust Engr LO GHQ	19
File	20
War Diary	21 - 23
Spares	24 - 29

17 28
17 AUG 44

NEW GUINEA FORCE
ENGINEER REGIMENT

PART II - WORKS

1. Detailed progress is submitted fortnightly.

2. NEW WORKS APPROVED

LAL

(i) 43 FOD (redesignated 4 AOD) extensions to accn -
Q8975 - 10 Aug 44.

3. NEW WORKS COMPLETED

LAL

(i) BUTIBUM Br three additional spans - 8 Aug 44 EDC -
25 Aug 44.

MADANG

(i) Details Depot - 7 Aug - 95% - EDC 12 Aug 44.

MORESEY

(i) 3 Phase power supply to SHANGRI - La Red Cross
8 Aug. 60%

(ii) 2 Phase power supply to 40 Sqn RAAF - 9 Aug 10%
(Supervision only).

4. WORKS COMPLETED

MADANG

(i) MILILAT Pln Rd - clearing and forming.
(ii) Airstrip - in operation - 10 Aug 44.

5. GENERAL
WAW AREA

(i) WAW - LAEU Rd - open convoys 13 Aug 44.

MADANG

(i) 5000 cub ft Refrig. 97% - EDC 18 Aug 44.
(ii) No 2 wharf - 50% - EDC 21 Aug 44.
(iii) Airstrip - clearing taxiways, 70% - EDC 8 Sep 44.
(iv) FOD Accn (43 sheds), 20% - EDC 6 Sep 44.
(v) FAD Accn (16 sheds), 50% - EDC 24 Aug 44.
(vi) 2/11 ACH - 55% - EDC 31 Aug 44.
(vii) CCS ALEXISHAFEN - 90% (reports as at 4 Aug)
EDC 11 Aug 44.

Rod. Shucksmith
Maj.
for CE NG Force.

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

SECRET
COPY NO 28
19 AUG 44

PART II ENGINEER STORES POSITION AS AT 16 AUG 44

1. SHIPMENTS EX AUSTRALIA

a Receipts

Tons

LAE ex BRISBANE	615 DW	Cement, ARC mesh
PORT MORESBY	8 DW	Fibre pipe, metal garnish

b En Route

NIL

c Awaiting shipment

NIL

2 INTRA NEW GUINEA

a Receipts

MADANG ex LAE (F PEATE)	165 DW	Iron, elec fittings
" " MARKAR (Barge)	55	Timber
" " BOGADJIM (Barge)	5	Sac-sac
LAE ex PORT MORESBY	7.5 DW	

b En Route

LAE ex PORT MORESBY (M E KINNEY)	50 M	Powerhouse plant
" " BUNA (J KIMBALL)	2000 M	
" " MILNE BAY		
MADANG ex LAE (F PEATE)	88 DW	

c Awaiting Shipment

LAE ex BUNA	2115 M	Bridging, mech eqpt
MADANG ex BUNA	512 M	Aust H/wood, 5000 sq ft refrig
" " MILNE BAY	103 M	
" " PORT MORESBY	110 M	Iron, 5000 sq ft re- frfrig
LAE ex MILNE BAY	2178 M	Major part of this probably shipped - latest resume not received
" " PORT MORESBY	900 M	Fire extinguishers, water pipe, etc

3 SHIPMENTS TO AUSTRALIA

a En Route

NIL

b Awaiting Shipment

SYDNEY ex MORESBY	228 M	Mech Eqpt
" " "	44 M	General
" " LAE	1902 M	Mech Eqpt

Obay
Bogadier
Chief Engineer

SECRET
COPY NO 28
17 AUG 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART III - INTELLIGENCE RESUME FOR WEEK ENDING 17 AUG 44

GENERAL

1. MADANG LIBERTY WHARF

The first Liberty Ship berthed at MADANG Wharf on 22 Jul.

The following work was entailed in the construction of the Wharf.

- (a) Dismantle existing demolished wharfage.
- (b) Erect pile driving machines.
- (c) Drive 200 piles and place crossheads bracing and walings.
- (d) Erect saw bench to rip baulk timber.
- (e) Place 90000 super ft of superstructure.
- (f) Construct retaining wall on inshore row of piles and at ends of Wharf.
- (g) Fill 2400 cu yds.

Size of Wharf 330' x 40'

Total man days for task.

RAE	3647
Natives	880
Total	<u>4527</u> Man days

2. MOVEMENTS OF OFFICERS

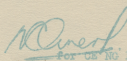
CE Brig MANN departed for MADANG on 15 Aug.

Brig A C TORR departed for AUST on 15 Aug.

Lt Col MULVANEY returned from MADANG 11 Aug.

Maj GRAHAM returned from PORT MORESEY 9 Aug.

Capt HAIGH visited MADANG on Stores matter during the week and returned 15 Aug.

 Capt
for CE NG Force

Appendix A(4)

SECRET
COPY NO 29
24 AUG

NEW GUINEA FORCE ENGINEER WEEKLY RESUME

EQ NG Poroc

Engr Works Report and Stores Summaries
for 24 Aug 66, are attached.

J. J. Mann
f (J MANN) Brigadier
Chief Engineer

DISTRIBUTION

<u>BY G (SD)</u>	<u>COPY</u>
PA to C in C	1
LEQ	2
AGV LEQ	3 - 4
File	5

<u>BY CE NGF</u>	<u>COPY</u>
CRE 3 Aust Div	6
CRE 5 Aust Div	7
5 Aust CRE (Wks)	8
68 Aust DCRE (Wks)	9
68 Aust DCRE (Wks)	10
OC 31 22 22 Coy	11
2/1 Aust CRE Forestry	12
1 Aust CRE NG Forestry	13
CRE 1 Aust Water Tpt Gp	14
E in C	15 - 16
D/R in C	17 - 18
CE First Aust ARMY	19 - 20
Aust Engr LG Gp	21
File	22
War Diary	23 - 25
Stores	26 - 31

FORTNIGHTLY RESUME BY CHIEF ENGR NO FORCE

SECRET
COPY NO. 29
24 AUG 47 Page 2.

PART II - PROGRESS OF WORKS.

PART I - PROGRESS OF WORKS			PERCENTAGE COMPLETE		UNIT EXECUTING		REMARKS	
SERIAL	WORK	DATE COMPLETED		C	DATE OF REPORT			
5 A	(11) GOC Mess LAE - LABU AREA - ref map LAE 1:25,000	21Jun			7	13Aug	12 Fd Coy	Awaiting timber
	<u>PORT FACILITIES</u>							
	(i) LIBERTY WHARF MR 660390	1Aug			7	"	10 Fd Coy	Commenced driving piles 22 Aug
	(ii) Landing craft ramps - MR 660390	12Aug			30Sep	"	" " "	Pile driving 85%
B	(iii) Floating Dock - Small craft - LABU	22Jun			7	"	8 A Tps Coy	
	<u>RDS & BGS</u>							
C	(i) BUTIBUM Br - 3 new spans	8Aug			25Aug	"	" " " "	
	(ii) 6 Aust Farm Coy Rd	"			16Aug	"	10 Fd Coy	Cancelled
	<u>INSTALLATIONS</u>							
	(i) RAE Dump Bldgs	3Jun			15Sep	"	52 Fd Pk	
D	(ii) 2/7 AEME Wksp Hutting	13Jun			25Aug	"	8 A Tps Coy	Floors to complete
	(iii) NG Records Accn	11Jul			7	"	38 AWC	
	(iv) 20,000 Cub ft Refrig Instltg Diesel	-			7Aug	"	8 A Tps Coy	Complete
	(v) DID-BUTIBUM Accn 1/120's 30 & kit	16Aug			24Aug	"	38 AWC	
	(vi) 5000 cub ft cold storage AACS	24Jul			25Sep	"	8 A Tps Coy	
	(vii) HHD - LABU	25May			2Aug	"	38 AWC	
	<u>HOSPITALISATION</u>							
	(i) 2/F AGH increased water storage	31Jul			19Aug	"	8 A Tps Coy	Complete
E	(ii) 2/F AGH-BUSU water Pt-new susp Br	2Aug			11Sep	"	20 Fd Coy	
	(iii) AAMWS 2/7&2/8 AGH-Kit Abint etc	24Jul			22Aug	"	" " "	
	<u>OTHER WORKS</u>							
	(i) NG Sigs Bldgs - Hardstandings	6Jul			7	"	10 Fd Coy	Hardstandings only
F	(ii) LAE Airstrip - water supply	13Jun			7	"	8 A Tps Coy	
	(iii) OR's Club	20Jul			26Sep	"	" " "	Labour diverted to BUTIBUM Br
	(iv) ANGAB S & S 5/80' x 20' huts	26Jul			30Aug	"	10 Fd Coy	
	(v) DPO - 1/60' x 20'	12Aug			22Aug	"	" " "	
	(vi) 11 Aust Mob Laundry (new comp)	14Aug			30AUG	"	20 Fd Coy	
	(vii) 19 L of C Sigs-prefabrication masts	29Jul			7	"	58 Fd Pk	

FORTNIGHTLY RESUME BY CHIEF ENGR NG FORCE

SECRET
COPY NO 29
24 Aug 44 Page 3.

PROGRESS OF WORKS.

WORK	DATE COMMENCED	PERCENTAGE COMPLETE	E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
(iii) Sawmills - BUSU " - MOE	-	CONTINUOUS CONTINUOUS	-	16Aug	2/3 Forestry	274,000 supft in period 40,300 " "
<u>MADANG AREA</u>						
<u>PORT FACILITIES</u>						
(i) No.2 wharf (small ships)	23Jul			21Aug	15Aug 2/4 FdSqn	
(ii) Jetty for "FRANCIS PEATE"	?			?	" "	All Piles Driven
<u>PIERS</u>						
(i) Taxiways and Dispersal Areas	?			8Sep	" 2/1 RlyCCoy	Clearing Complete
<u>OPS & BNS</u>						
(i) MADANG - ALEX RD (132 m)	8 May			20Aug	4 Fd Coy	Complete
MERIO - ALEX Section Clearing				"	8 Fd Coy	Complete
" " Forming				31Aug	" ME-55 FdPk	
" " Surfacing				4 Aug	4 Fd Coy	Complete
(ii) MILITAT Ptn Rd Clearing	21Jul			4 Aug	" "	Complete
" " Forming				"	" "	Complete
(iii) VITAR Ptn Rd Clearing & Forming	9 Jul			20Aug	20Aug	Complete
" " Surfacing				?	" "	
<u>INSTALLATIONS</u>						
(i) ASD - Storage 14 Sheds	22Jun			15Aug	15Aug 2/4 FdSqn	Complete - 87,300 sq ft.
(ii) FOD - " 43 Sheds	7 Jul			22Aug	" " "	118450 sq ft completed
(iii) PAD - " 16 Sheds	20Jul			24Aug	" 5 ATps Coy	11340 sq ft completed
(iv) Fd Bakery	17Jul			4 Aug	4 Aug " "	Complete
(v) RAE Dump - 10 Sheds 1 Adm Hut	4 Jul			7 Aug	" " "	22604 sq ft completed
(vi) Refrig - Ice Making Plant	30Jun			10Aug	12Aug 53 Fd Pk	Complete
" " 5000 cub ft	5 Jul			7 Aug	15Aug 2/4 Fd Sqn	
(vii) BELIEU Is - Fd Butchery	20Jul			4 Aug	4 Aug 5 ATps Coy	Complete
<u>DETAILED INSTALLATION</u>						
(i) CCS ALEXSHAFEN (Phase 1)	5 Jun			20Aug	20Aug 4 Fd Coy	Complete
(ii) 2/11 AGH Wards etc (600 Bed)	4Jul			31Aug	12Aug 8 Fd Coy	
" " AANS & AAMWS Accn				31Aug	" "	Not commenced
" " Sewerage	30Jul			12Aug	" 5 ATps Coy	Complete
<u>OTHER WORKS</u>						
(i) Electric Power & Lighting	8 Jul			?	" 5 ATps Coy	
(ii) Sawmill KARKAR Production	19Jun	CONTINUOUS	-	"	2/2 Forestry	60,000 3 ft per week

WORKING PARTIES SUPPLIED RAE DURING PORTNIGHT

~~SECRET~~

COPY NO 29
24 Aug 44

Page 4

AREA	TROOPS		NATIVES		Av Hours available		Remarks
	Requisitioned Man Days	Supplied Man Days	Requisitioned Man Days	Supplied Man Days	Troops P/Day	Natives P/Day	
MORESBY	2414	2252	2490	2420	7½	7½	Fortnight ending 18 Aug
WAW (incl Rd)	467	467	2980	2980	7½	7½	" " " "
LAE	441	441	2384	2384	7½	7½	" " " "
MADANG	798	798	5815	5815	7½	7½	Fortnight ending 11 Aug
TOTALS	4120	3958	13,609	13,599	7½	7½	

Robert Graham
Maj
for G2 HQ Force

NEW GUINEA FORCESECRET
COPY NO 29
24 AUG 44ENGINEER WEEKLY RESUMEPART II ENGINEER STORES POSITION AS AT 23 AUG 441. SHIPMENTS EX AUST

a. <u>Receipts</u>	<u>Tons (M)</u>
LAE ex BRISBANE (W H POINT)	270 (DW)
<u>En-route</u>	
MADANG ex SYDNEY (M J COLEMAN)	418 (DW)
LAE ex BRISBANE (NORINDIES)	192
<u>Awaiting shipment</u>	
MADANG ex SYDNEY	860
MILNE BAY ex SYDNEY	20
LAE ex SYDNEY	1887
PORT MORESBY ex BRISBANE	196
LAE ex BRISBANE	2

1400 DW cement
300 DW cement
1000 DW Corr Iron
325 DW cement

2. INTRA NEW GUINEA

a. <u>Receipts</u>	
LAE ex MILNE BAY (J KIMBALL)	2900 (DW)
MADANG ex LAE (F PEATE)	200 (DW)
<u>En-route</u>	
LAE ex MILNE BAY (A McKIN)	117
MADANG ex LAE (GORGON)	127
<u>Awaiting shipment</u>	
LAE ex BUNA	2285
MADANG ex BUNA	342
LAE ex PORT MORESBY	965

Mech plant, 5000
cu ft refrig
corr iron
Mech plant

3. SHIPMENTS TO AUSTRALIA

a. <u>En-route</u>	
SYDNEY ex MILNE BAY (D J HUGHES)	349
<u>Awaiting shipment</u>	
SYDNEY ex LAE	1902
AUST ex PORT MORESBY	21

Mech equipment
General

Alfred Caw
Lt J MANN, Brigadier
Chief Engineer

Appendix A(15)

SECRET
COPY NO 30
31 Aug 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 31 Aug 44, are attached.

J Mann

(J MANN) Brigadier
Chief Engineer

DISTRIBUTION

By C (SD)

PA to C in C
LEQ
Adv LEQ
File

Copy

1
2
3 - 4
5

By CE NGF

CRE 3 Aust Div
CRE 5 Aust Div
5 Aust CRE (Wks)
48 Aust DCRE (Wks)
53 Aust DCRE (Wks)
OC 51 Pd Pk Coy
E/1 Aust CRE Forestry
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Op
E in C
DE in C
CE First Aust Army
Aust Engr LG GEQ
File
War Diary
Spares

Copy

6
7
8
9
10
11
12
13
14
15 - 16
17 - 18
19 - 20
21
22
23 - 25
26 - 31

30
31 Aug 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART II - WORKS

1. Detailed progress is submitted fortnightly.

2. NEW WORKS APPROVED.
MIL.

3. NEW WORKS COMMENCED
LAE

- (i) 3 Div accn 26 Aug - 80% EDC 31 Aug.
- (ii) 3 Div access hds 26 Aug - 90%.
- (iii) DID - FSD MADTAB EDC 15 Sep.
- (iv) NG Press accn.

MADANG.

- (i) Development Water Supply : Sinking new well and establishing water point MEIRO R.

4. WORKS COMPLETED.
LAE

- (i) 9 L of C Stationary huttage.
- (ii) DFO - 1 additional shed.
- (iii) LABU - NG Records and DID huts.

MADANG.

- (i) FAD Accn. 20,160 sq feet.
- (ii) Refrigerator 5,000 c feet.
- (iii) Jetty for small craft KAR KAR.

5. GENERAL.
WAI AREA

- (i) All major works cease. RA being kept open for traffic.

LAE

- (i) Landing Ramps for LOM's MILFORD HAVEN EDC 30 Sep.
- (ii) BUTIBUM Rd Br. 3 additional spans : 75% complete.

MADANG.

- (i) No 2 Wharf. 95% - Berth available for shipping up to 3raft 22' 0".
- (ii) FOD Accn 115,650 sq feet completed and further work suspended temporarily.
- (iii) 2/11 AGH. 80% 25 Aug.
- (iv) BINNEN HER. Jetty for "FRANCIS PEATE" - 80% - 25 Aug.
- (v) CCS ALEXISHAFEN. DP Theatre - 5%. EDC 10 Sep.

Smear
Capt.
For CE NG Force.

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

SECRET
COPY NO. 30
31 Aug 44

PART II ENGINEER STORES POSITION AS AT 30 Aug 44.

1. SHIPMENTS TO AUSTRALIA.

(a) <u>Receipts</u>	<u>Tons (M)</u>
LAE ex BRISBANE (NORINDIES)	15 DW
(b) <u>En Route</u>	
LAE ex TOWNSVILLE (TARCONA)	1 M Machinery
(c) <u>Awaiting Shipment</u>	
LAE ex SYDNEY (J S MORETON)	1887 (Additional to be trans-
MADANG ex SYDNEY (J S MORETON)	1860-hipped or retained at
MORSEBY ex "	223 (LAE.
" ex BRISBANE	196
MILNE BAY ex SYDNEY	20
LAE ex BRISBANE	2
MADANG ex BRISBANE	285

2. INTRA NEW GUINEA

(a) <u>Receipts</u>	
LAE ex MILNE BAY (J H KIMBALL)	223 DW
" " MORSEBY (M E KINNEY)	35 DW
MADANG ex LAE (GORGON)	8
MORSEBY ex LAE (GORGON)	†
(b) <u>En Route</u>	
LAE ex BUNA (AS30)	30 Wheelbarrows
(c) <u>Awaiting Shipment</u>	
LAE ex MORSEBY	966 (Bridging, Mech Equip
" ex BUNA	2257-(& Timber.
MADANG ex BUNA	342
MILNE BAY ex LAE	1‡ Stator

3. Shipments to AUSTRALIA
SYDNEY ex MORSEBY (CHARON) 22 General stores

(b) Awaiting Shipment
SYDNEY ex LAE 1902 M Mech Equip

Alley Capt
Brigadier
Chief Engineer

SECRET
COPY 30
31 Aug 66

NEW GUINEA FORCE
ENGINEER WORKS RESUME

PART III - INTELLIGENCE RESUME FOR WEEK ENDING 31 AUG 66

GENERAL

1. TESTS ON HESSIAN

The following results have been obtained from tests to increase the life of hessian used as shower and latrine screens.

SER NO	MIX	DESCRIPTION	PERIOD OF TEST	REMARKS
1	Best Cement	Slurry consistency applied with hessian or whitewash brush to wet hessian	21 Jul to 18 Aug	Constant exposure to weather. After 7 days began to deteriorate and flake when hessian was folded. Do not recommend.
2	1 : 2	Sifted sand mixed with cement to slurry consistency and applied as in Ser 1	21 Jul to 18 Aug	Similar to serial 1 though did not flake as much. Further exposure required before further remarks can be made.
3	1 : 3	As Serial 2	21 Jul to 18 Aug	Generally withstanding rain-hessian is pliable and cement wash does not flake. Should be successful from preliminary observations.
4	1 : 6	As Serial 2	21 Jul to 18 Aug	Mixture too weak. Cement wash rapidly deteriorated and washed off. Do not recommend.

2. Further tests are being conducted with hessian using 1:4 mix, camouflage paints and oil treatment.

[Signature] Capt
for CEAMO Force

WAR DIARY or INTELLIGENCE SUMMARY.

(Erase heading not required.)

Army Form C. 2118.
(adapted.)

Unit CE BRANCH HQ NGF

Date and Time.—From 1 Sep 44 To 1 Oct 44

Place.	Date.	Hour.	Summary of Events and Information.	Remarks and references to Appendices, Diaries, &c.
LAE	2 Sep		CE NGF Technical Instr No 94	
			Command of Engineer Units <i>(A)</i>	Appx A(1)
	7 Sep		NGF Engineer Weekly Resume <i>(A)</i>	Appx B(1)
	14 Sep		CE NGF Technical Instr No 95	
			Engineer Esprit de Corps <i>(A)</i>	Appx A(2)
	14 Sep		NGF Engineer Weekly Resume <i>(A)</i>	Appx B(2)
	16 Sep		CE NGF Technical Instr No 96 <i>(A)</i>	Appx A(3)
	21 Sep		NGF Engineer Weekly Resume <i>(A)</i>	Appx B(3)
	28 Sep		NGF Engineer Weekly Resume <i>(A)</i>	Appx B(4)

L.

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

101. HATIONS.
NEW GUINEA FORCES
C. 4060.
2 Sept. 44.

CHIEF ENGINEER NEW GUINEA FORCES.

TECHNICAL INSTRUCTION NO 94.

COMMAND OF ENGINEER UNITS.

1. There appears to be some confusion of ideas regarding engineer units placed 'under command of' and 'in support of' Formations.

2. ENGINEER UNITS UNDER COM AND OF FORMATIONS.

(a) There are two sets of circumstances in this category:-

- (i) When the engineer unit is located geographically within fairly close proximity to its HQ RAE. In this case, the engr unit will not all its orders and instructions from the Comd of the Formation only. The CRE however, still has powers of technical inspection of the unit and the jobs it is engaged on, but naturally would first contact the Formation Comd concerned and ask his formal permission. In this case ordinary administration, returns, reports etc., will continue to be carried out direct by the unit with its HQ RAE. In addition to this ordinary administrative routine, the Formation Comd concerned may of course ask for certain reports, etc to be rendered by the engr unit direct to him.
- (ii) Where the engr unit and the Formation under whose command it is placed are NOT in close proximity to its HQ RAE, all matters including administration will go through the Formation Comd. Inspection powers of CRE remain as in (i). The above does NOT exclude the fullest use being made of the engineer wireless network in forwarding matters of engineer intelligence, etc, direct from the engr unit to its HQ RAE.

3. ENGINEER UNITS IN SUPPORT OF FORMATIONS.

The same general principles as in para 2 above, but in this case:-

- (i) The unit concerned should obtain the concurrence of the CRE before undertaking any major projects required by the Formation concerned.
- (ii) The CRE may give tasks to the engr unit on his own initiative and is the determining authority for deciding priority between these tasks and tasks in (i) above. He naturally will do this after consultation with Div HQ and the Formation Comd concerned.
- (iii) On Div HQ approval, the CRE may withdraw engr units from being "in support of" any particular Formation. This would of course be done through Staff channels and Formation

/s/.....2

Comd concerned notified of the intention as early as possible.

4. WHICH PROCEDURE SHOULD BE ADOPTED.

- (a) This is purely a matter of education of the Div Staff and solely depends on the ability and personality of the CRE himself to have his ideas implemented.
- (b) As a general rule, it has been proved time and time again in operations in this war and the last war, that it is entirely wrong to place an Engr unit under the command of Formations, except when a Formation is given an independent mission, which will take it far afield from the remainder of its Div (or Bde).
- (c) Even the placing of Engr units "in support of" Formations should be carefully weighed, as, if this practice is continued for a long period, the Formation Comd (Bde as a rule) comes to think it is his own particular unit. To prevent this happening, the CRE should relieve Pz Coys by other Pz Coys irrespective of the times when the Formation concerned is relieved by another Formation. This has added advantage of enabling all engr units to become familiar with all sectors and areas.
- (d) In consequence of the above, a hypothetical case may be taken when a Div has three Bdes in action with no Reserve Bde, but that a reserve Bde gp exists directly under Comd of Corps. In this case, the CRE may place a Pz Coy "in support of" one Bde, a portion of his Pz Coy as an engr reserve. The Corps may place the Pz Coy of the Reserve Bde gp "in support of" that Bde, but may give it Corps tasks, or as a rule insist that it carry out training by itself and in co-operation with its Bde.
- (e) The retention of elasticity by the CRE and his freedom of arranging reliefs of Pz Coys should NOT however prevent him placing the additional Pz Coy always associated with a particular Bde, with that Bde if it is assigned an independent mission. This should be taken as a general rule only.

J. Mann
(J. MANN) Brigadier.
Chief Engineer.

DISTRIBUTION.

CRE 3 Aust Div. (5)
CRE 3 Aust Div. (5)
5 Aust CRE (Wrs). (2)
43 Aust DORE (Wrs).
CRE 1 Aust Water Bpt Gp.

FOR INFO.

E in C LHQ (2)
D/ E in C Adv LHQ. (2)

Headquarters
NEW GUINEA FORCE
14 Sep 44

GEN 4970

CHIEF ENGINEER NEW GUINEA FORCE

TECHNICAL INSTRUCTION NO 95.

ENGINEER ESPRIT DE CORPS.

1. AIM.

The object of this Instruction is to draw attention to the relationship between Engineer Units themselves and also between Engineer Units and units of other arms.

2. GENERAL.

It has become increasingly evident that the spirit of co-operation and team work built up by Engineer Units in the Middle East and later in NEW GUINEA is rapidly disappearing.

Some recent incidents which bear on this matter are as follows :-

- (a) A Unit Commander corresponding on policy matters through other than his direct service head.
- (b) The failure of one unit to assist and support another unit when in difficulties.
- (c) The transfer of an officer from a unit to a HQ without reference to the Unit Commander or approval of CE, NG Force.
- (d) An attempt to reverse the technical policy of CE, NG Force through Staff Channels, by obtaining pressure from a Base Commander.
- (e) The issuing of Instructions direct to Officers or NCOs of units or sub units without informing their OC or superior officer.
- (f) The appropriation, in part or whole by the forwarding unit of stores consigned to a particular formation.
- (g) Criticism of other RAE Units, personnel or administration, particularly in the company of non-engineer personnel.
- (h) The issuing of instructions on major policy or on matters of internal Unit Administration by junior officers of HQ units in the absence of the CRE or DCRE.
- (i) The failure of such officers to exercise respect to Company Commanders and officers of senior rank on lower formations.
- (j) Failure to give the maximum information to non-engineer units, who apply for stores or support assistance on works.
- (k) The criticism of a Company Commander by a CRE or DCRE in the presence of his junior officers.

3. PRINCIPLES OF ADMINISTRATION

The following principles will be adhered to regarding Engineer Administration :-

- (a) Correct channels will be observed excepting where operational necessity precludes it. In such cases personnel concerned will be informed at the earliest opportunity of action taken.
 - (b) Every attempt will be made to confine differences on Engineer matters to Engineer Channels. Such matters should be referred to the direct service head for arbitration and NOT passed through Staff Channels in an attempt to force a favourable decision.
 - (c) Officers administrating temporary Command of units will NOT alter the general policy of the normal commander nor change the duties of particular officers unless operationally necessary. The onus of establishing this necessity will be on the Officer Administrating Command.
 - (d) An adjutant or corresponding officer issuing instructions to a Company Commander on behalf of a CRE or DCRE will exercise proper respect towards the Company Commander and will confine his instructions to matters of policy and will NOT interfere with internal Company Administration.
 - (e) Formations or Units will NOT obtain stores from other services (e.g. USA, RAAF, or RAN) on the promise to replace without the authority of CE, NGF.
 - (f) Officer postings (other than short temporary attachments) will only be changed by a CRE or DCRE without previous reference to CE, NGF when operationally necessary. In all such cases CE, NGF will be advised immediately by signal and the officer will NOT move with the unit to which temporarily attached without approval of CE, NGF.
 - (g) Units scheduled for movement from the Command of a Formation will NOT be denuded of personnel or equipment without the approval of CE, NGF.
4. It is NOT desired to curtail the powers of a CRE but to ensure that his powers are not used to increase the efficiency of his own particular formation at the cost of another formation. This applies particularly when the Engineer Order of Battle is in process of change.
 5. This instruction will be promulgated to all RAE officers who will be held personally responsible that the above principles are observed with a view to ensuring maximum efficiency and harmonious working throughout the Corps of RAE as a whole.
 6. Please acknowledge.

J Mann
(J MANN) Brigadier
Chief Engineer

DISTRIBUTION

All CsRE) For distribution
All DCRE) to Coys.

Page 1 of 2 pages

Headquarters
NEW GUINEA FORCE
COM 4936

16 Sep 44

CHIEF, GILMER NEW GUINEA FORCE

TECHNICAL INSTRUCTION NO 96.

SELECTION AND STAGING OF TIMBER IN NEW GUINEA.

1. GENERAL

It has been found that certain NEW GUINEA timbers deteriorate through fungus and borer attack in stacks within a few weeks. Others will last indefinitely. The purpose of this instruction is to broadly classify timbers into those suitable for holding in reserve in dumps, and promulgate desirable methods of stacking.

2. CLASSIFICATION OF TIMBERS.

Timbers can be very roughly classified as to durability in stacks and structural qualities by the colour, even by unskilled personnel. The three main categories are as follows:-

i. Red and brown woods. (e.g. TALL, DISCOVERY, BUNIA).

These are all reasonably durable and in general should be selected when timber is to be kept in reserve in dumps for an indefinite period.

ii. Heavy firm Yellow or Green woods. (e.g. GILMER, HICKORY, BAKA).

These are only slightly less durable than the red or brown woods.

iii. Low density soft light coloured woods (e.g. KALATA, FIG).

The latter two are entirely useless for dump stocks and should not be used to build up reserves if it can be avoided.

3. These light woods (2(iii) above) though not suitable for building up stocks in Dumps have a definite and important place as they are plentiful, readily milled, easily erected, and, when protected by roofs, eaves etc, out of contact with the ground, have sufficient strength and durability for normal Army building purposes.

4. Methods of Staging Timber in Dumps:

i. Timber deteriorates rapidly in stacks in NEW GUINEA owing to attack by FUNGAL ROTTS AND BORERS. Both of these organisms rely largely on the starch content of the timber for their food. This starch is only present in a form which these organisms can assimilate while the timber is green. Hence any process which will sear the timber rapidly preserves the timber from attack.

ii. Attached schedule 'A' shows: (1) the ideal way to stack timber to ensure the minimum deterioration.

11 (Cont)

2 The modified method which will be adopted as the standard in all NEW GUINEA DUMPS in which timber is stored. This requires insertion of 1" packing strips between each layer of timber and involves but little extra care and labour in stacking. As shown in the sketch, timber stacks will not be sent in as a continuous run of about 2' will be left at

J Mann

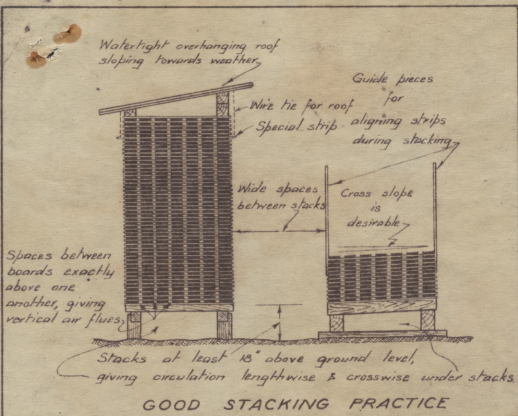
(J MANN) Brigadier
Chief Engineer

Distribution:

	<u>Copies</u>
CRE 1 Asst Div	2
CRE 3 Asst Div	2
5 Asst CRE (Wks)	2
53 Asst DORE (Wks)	2
48 Asst DORE (Wks)	2
23 Asst Pk Coy	2
51 Asst Pk Coy	2

For information:

E in C	2
DE in C	2
CE 2 Asst Corps	2 ✓



A BAD STACKING FAULT



*Method of Maintaining Vertical Flues
in Stack of Random Widths - End view.*

SECRET
COPY NO 33
7 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 7 Sep 44, are attached.

J. Mann
f (J MANN) Brigadier
Chief Engineer

DISTRIBUTION

<u>By G (SD)</u>	<u>Copy</u>
PA to C in C	1
INQ	2
Adv INQ	3 - 4
File	5

<u>By CE NGF</u>	<u>Copy</u>
CRE 3 Aust Div	6
CRE 5 Aust Div	7
5 Aust CRE (Wks)	8
48 Aust DCRE (Wks)	9
53 Aust DCRE (Wks)	10
OC 51 Fd Pk Coy	11
2/1 Aust CRE Forestry	12
1 Aust CRE NG Forests	13
CRE 1 Aust Water Tpt Gp	14
E in C	15 - 16
DE in C	17 - 18
CE First Aust Army	19 - 20
Aust Engr LO GHQ	21
File	22
War Diary	23 - 25
Spares	26 - 31

M.

PORTNIGHTLY RESUME BY CHIEF ENGR NG FORCE

SECRET
COPY NO 33 Page 1.

PART II - PROGRESS OF WORKS.

7 Sep 44

SERIAL	PRIORITY	WORK	DATE COMPLETED	PERCENTAGE COMPLETE	R D C	DATE OF SECURE	UNIT EXECUTING	REMARKS
1	B	<u>MORESBY AREA</u>						
		RDS & BRS						
		(i) NAPA NAPA Rd - 6 ml	2May		?	1Sep	51 Fd Pk	Shortage transport
	F	<u>OTHER WORKS</u>						
		(i) HT Retic-Addl 11 KVA Transf KONADABU	6Jul		?	"	"	Spare time job Maint crew
		" " " 5 KVA " "	"		?	"	"	" " " " " "
		" " Extn to 4 ml Dump	17Aug		?	"	"	"
		" " Frt Wksp M/Bks	"		?	"	"	"
		(ii) Water Supply - MURRAY BKS	15Aug		30Aug	"	"	Complete
	AL	(iii) Frt 5.25 CA/AA Bty-emplacements	18Oct		?	"	10 AA & Frt	
	A	" " " Comd Post	15Apr		?	"	"	
	AL	" " No 1&2 E Rm & Artif Wksp	17Apr		?	"	"	
	AL	" " Day BOP	9May		?	"	"	
	B	" " Accn Scale "A"	15May		?	"	"	
		(iv) 4 ml DID - Butchers Shop	30Aug		21Sep	"	51 Fd Pk	
		(v) Steam Drying Rm - 101 Lt Fd Amb	1Sep		24Sep	"	"	
2		<u>MILNE BAY</u>						
		Taken over by US Army						
3		<u>BUNA AREA</u>						
		(i) Dismantling & Maint only		CONTINUOUS				
4		<u>WAU - BULOLO AREA</u>						
		(i) EDIS CK - WAU - LABU Rd - Maint		CONTINUOUS	-	"	9 Fd Coy	Maint ceases on Evac WAU AREA
5	A	<u>LAE - LABU AREA</u> - ref Map-LAE 1:25,000						
		<u>PORT FACILITIES</u>						
	AL	(i) LIBERTY WHARF MR 660390	1Aug		?	28Sep	10 Fd Coy	100 piles driven
	AL	(ii) LANDING Craft Ramps MR 660390	12Aug		30Sep	"	"	Rough weather
	AL	(iii) Floating Dock - Small Craft LABU	22Jun		1Nov	"	8 A Tps	
	B	RDS & BRS						
	AL	(i) BUTIBUM Br - 3 Addl spans	8Aug		30Aug	28Sep	"	Complete
	AL	" " " Wing Walls	29Aug		6Sep	"	20 Fd Coy	
		(ii) Link Rd - BUSU to BUTIBUM 1.25 M			?	"	58 Fd Pk	Drainage only in period

PORTNIGHTLY RESUME BY CHIEF ENGR NG FORCE

SECRET
COPY NO 33 Page 2.
7 Sep 44

PART II - PROGRESS OF WORKS.

SERIAL	PRIORITY	WORK	DATE COMMENCED	PERCENTAGE COMPLETE	REC	DATE OF REPORT	UNIT EXCUTING	REMARKS
				0000000000				
C		<u>INSTALLATIONS</u>						
		(i) HAE DUMP Bldgs	3Jul			25Sep	58 Pd Pk	
		(ii) NG Records Accn	11Jul			23Aug	38 AWC	Complete
		(iii) DID - BUTIBUR Rd - 1/120 x 30 & Kit	16Aug			30Aug	"	Complete
		(iv) 5000 cu ft cold storage AACSS	24Jul			25Sep	8 A Tps	
		(v) DID - LABU	25May			23Aug	38 AWC	Complete
		(vi) DID - FSD - NADZAB	24Aug			15Sep	20 Pd Coy	
E		<u>HOSPITALISATION</u>						
		(i) 2/7&8 AGH-BUSU Water Pt-new susp Br	2Aug			11Sep	"	
		(ii) AAMWS - Kit, Ablut etc	24Jul			7Sep	"	Off qrs not comed
F		<u>OTHER WORKS</u>						
		(i) NG Sigs Bldgs - Hardstanding	6Jul		?	"	58 Pd Pk	
		(ii) LAE Airstrip water supply	13Jun		?	"	8 A Tps	No wk in period
		(iii) OR's Club	20Jul			26Sep	"	
		(iv) ANGAU S & S 6/80 x 20' Huts	26Jul			14Sep	38 AWC	
		(v) DFO 1/60 x 20' Hut	12Aug			22Aug	10 Pd Coy	Complete
		(vi) 11 Aust Mob laundry (New comp)	14Aug			2Sep	58 Pd Pk	Complete
		(vii) 19 L of C Sigs - Prefabric masts	29Jul		?	"	"	
		" " " " Reception Hut	12Aug			30Sep	8 A Tps	
		" " " " Accn NCF	25Sep			14Sep	"	
		(viii) LAE Power House	17Aug			30Sep	"	
		(ix) Detention Bks	31Aug		?	"	"	
		(x) 3 Div Accn & Access Rds	19Aug			31Aug	20 Pd Coy	Complete
		(xi) NG Press Accn	24Aug		?	"	38AWC	
		(xii) Pet Refill Pt AEME Wksp	2Aug			23Sep	8 A Tps	
		(xiii) Sawmills		CONTINUOUS	-	"	2/5 Forestry	173,077 s ft in period
6		<u>MADANG AREA</u> ref maps- MADANG Airdrome						
A		<u>PORT FACILITIES</u> ALEX 1:25000 1:25000						
		(i) No2 WHARF (Small ships)	23Jul			26Aug	2/4 Pd Sqn	Complete
		(ii) Jetty for "FRANCIS PEATE"	13Aug			12Aug	"?	Complete
		(iii) MILILAT - Jetty	10Aug			26Aug	4 Pd Coy	Complete
		<u>AIRSTRIPS</u>						
		(i) Taxiways and Dispersal Area	14Aug			30Sep	"	2/1 Rly Const
		(ii) Control Tower - MADANG Strip	2Sep			9Sep	"	

PART II - PROGRESS OF WORKS.

SERIAL	PRIORITY	WORKS	DATE COMMENCED	PERCENTAGE COMPLETE	EDC	DATE OF REPORT	REMARKS
			1	2	3	4	5
			6	7	8	9	10
			11	12	13	14	15
			16	17	18	19	20
			21	22	23	24	25
			26	27	28	29	30
			31	32	33	34	35
			36	37	38	39	40
			41	42	43	44	45
			46	47	48	49	50
			51	52	53	54	55
			56	57	58	59	60
			61	62	63	64	65
			66	67	68	69	70
			71	72	73	74	75
			76	77	78	79	80
			81	82	83	84	85
			86	87	88	89	90
			91	92	93	94	95
			96	97	98	99	100
			101	102	103	104	105
			106	107	108	109	110
			111	112	113	114	115
			116	117	118	119	120
			121	122	123	124	125
			126	127	128	129	130
			131	132	133	134	135
			136	137	138	139	140
			141	142	143	144	145
			146	147	148	149	150
			151	152	153	154	155
			156	157	158	159	160
			161	162	163	164	165
			166	167	168	169	170
			171	172	173	174	175
			176	177	178	179	180
			181	182	183	184	185
			186	187	188	189	190
			191	192	193	194	195
			196	197	198	199	200
			201	202	203	204	205
			206	207	208	209	210
			211	212	213	214	215
			216	217	218	219	220
			221	222	223	224	225
			226	227	228	229	230
			231	232	233	234	235
			236	237	238	239	240
			241	242	243	244	245
			246	247	248	249	250
			251	252	253	254	255
			256	257	258	259	260
			261	262	263	264	265
			266	267	268	269	270
			271	272	273	274	275
			276	277	278	279	280
			281	282	283	284	285
			286	287	288	289	290
			291	292	293	294	295
			296	297	298	299	300
			301	302	303	304	305
			306	307	308	309	310
			311	312	313	314	315
			316	317	318	319	320
			321	322	323	324	325
			326	327	328	329	330
			331	332	333	334	335
			336	337	338	339	340
			341	342	343	344	345
			346	347	348	349	350
			351	352	353	354	355
			356	357	358	359	360
			361	362	363	364	365
			366	367	368	369	370
			371	372	373	374	375
			376	377	378	379	380
			381	382	383	384	385
			386	387	388	389	390
			391	392	393	394	395
			396	397	398	399	400
			401	402	403	404	405
			406	407	408	409	410
			411	412	413	414	415
			416	417	418	419	420
			421	422	423	424	425
			426	427	428	429	430
			431	432	433	434	435
			436	437	438	439	440
			441	442	443	444	445
			446	447	448	449	450
			451	452	453	454	455
			456	457	458	459	460
			461	462	463	464	465
			466	467	468	469	470
			471	472	473	474	475
			476	477	478	479	480
			481	482	483	484	485
			486	487	488	489	490
			491	492	493	494	495
			496	497	498	499	500
			501	502	503	504	505
			506	507	508	509	510
			511	512	513	514	515
			516	517	518	519	520
			521	522	523	524	525
			526	527	528	529	530
			531	532	533	534	535
			536	537	538	539	540
			541	542	543	544	545
			546	547	548	549	550
			551	552	553	554	555
			556	557	558	559	560
			561	562	563	564	565
			566	567	568	569	570
			571	572	573	574	575
			576	577	578	579	580
			581	582	583	584	585
			586	587	588	589	590
			591	592	593	594	595
			596	597	598	599	600
			601	602	603	604	605
			606	607	608	609	610
			611	612	613	614	615
			616	617	618	619	620
			621	622	623	624	625
			626	627	628	629	630
			631	632	633	634	635
			636	637	638	639	640
			641	642	643	644	645
			646	647	648	649	650
			651	652	653	654	655
			656	657	658	659	660
			661	662	663	664	665
			666	667	668	669	670
			671	672	673	674	675
			676	677	678	679	680
			681	682	683	684	685
			686	687	688	689	690
			691	692	693	694	695
			696	697	698	699	700
			701	702	703	704	705
			706	707	708	709	710
			711	712	713	714	715
			716	717	718	719	720
			721	722	723	724	725
			726	727	728	729	730
			731	732	733	734	735
			736	737	738	739	740
			741	742	743	744	745
			746	747	748	749	750
			751	752	753	754	755
			756	757	758	759	760
			761	762	763	764	765
			766	767	768	769	770
			771	772	773	774	775
			776	777	778	779	780
			781	782	783	784	785
			786	787	788	789	790
			791	792	793	794	795
			796	797	798	799	800
			801	802	803	804	805
			806	807	808	809	810
			811	812	813	814	815
			816	817	818	819	820
			821	822	823	824	825
			826	827	828	829	830
			831	832	833	834	835
			836	837	838	839	840
			841	842	843	844	845
			846	847	848	849	850
			851	852	853	854	855
			856	857	858	859	860
			861	862	863	864	865
			866	867	868	869	870
			871	872	873	874	875
			876	877	878	879	880
			881	882	883	884	885
			886	887	888	889	890
			891	892	893	894	895
			896	897	898	899	900
			901	902	903	904	905
			906	907	908	909	910
			911	912	913	914	915
			916	917	918	919	920
			921	922	923	924	925
			926	927	928	929	930
			931	932	933	934	935
			936	937	938	939	940
			941	942	943	944	945
			946	947	948	949	950
			951	952	953	954	955
			956	957	958	959	960
			961	962	963	964	965
			966	967	968	969	970
			971	972	973	974	975
			976	977	978	979	980
			981	982	983	984	985
			986	987	988	989	990
			991	992	993	994	995
			996	997	998	999	1000

WORKING PARTIAL SUPPLIED RAS DURING PERIOD

SECRET
COPY NO 33
7 Sep 44

Page 4

AREA	TROOPS		NATIVES		Av Hours available		Remarks
	Requisitioned Man Days	Supplied Man Days	Requisitioned Man Days	Supplied Man Days	Troops P/Day	Natives P/Day	
MURRESBY	2092	1912	2474	2360	7½	7½	Fortnight ending 2 Sep
WAW (incl R.R.)	-	-	643	643	7½	7½	Week ending 24 Aug
LAW	844	844	3000	3000	7½	7½	Fortnight ending 2 Sep
KADANG	-	-	6580	5750	-	7½	Fortnight ending 2 Sep
TOTALS	2936	2756	14,697	11,753	7½	7½	

Colt Shinn
Maj
For CM NG Force

NEW GUINEA FORCE
ENGINEER STORES REPORT

SECRET
COPY NO 33
7 SEP 44

PART II ENGINEER STORES POSITION AS AT 6 SEP 44

1 SHIPMENTS EX AUST

(a) <u>Receipts</u>	<u>Tons</u>	
MADANG ex SYDNEY (N J COLEMAN)	538 DW	Machinery, cement piping
LAE ex BRISBANE (WORINDIES)	122 DW	Irrigation pipe
" " TOWNSVILLE (TAROOMA)	1 DW	Engine
(b) <u>In Route</u>		
MADANG ex SYDNEY (BUNGAREE)	10 M	General
(c) <u>Awaiting Shipment</u>		
LAE ex SYDNEY (J S MORETON)	3800 M	Maintenance
MORESBY ex BRISBANE	196 M	Cement
" " SYDNEY	223 M	Cement, general

2 INTRA NEW GUINEA

(a) <u>Receipts</u>		
LAE ex MORESBY (KIMNEY)	2 DW	Damage
" " " (GORGON)	2 M	Domestic Refrig
" " MILNE BAY (KIMBALL)	525 DW	Machinery, general
" " BUNA (AS 11)	1 M	RSJ
" " " (AS 30)	7 DW	Wheelbarrows
" " MADANG (AK 95)	-	1 case - rakes
MADANG ex MILNE BAY (A McKIM)	20 DW	Bore casing
(b) <u>In Route</u>		
LAE ex MORESBY (ORMISTON)	50 M	5000 c ft refrig
(c) <u>Awaiting shipment</u>		
LAE ex MORESBY	916 M	General
" " BUNA (J A MUIROE)	2257 M	Refrig, general
" " MADANG	1 M	Spare parts
MADANG ex BUNA (J A MUIROE)	347 M	Mech plant
" " LAE	237 M	General

3 SHIPMENTS TO AUST

(a) <u>Shipped</u>	
NIL	
(b) <u>Awaiting Shipment</u>	
NIL	

4 CLOSURE OF DUMPS

- (a) MILNE BAY dump has now been completely closed and all stores handed over to USASOS, returned to AUST, or shipped to LAE or MADANG.
- (b) BUNA dump is also being closed. Bulk of stores will be shipped from BUNA to LAE on "J A MUIROE".

5 CHANGE OF RAE Hq. IN MORESBY AND LAE

- (a) 53 Aust DCRE (Wks) has now taken over LAE area from 5 Aust CRE (Wks).
- (b) 51 Aust Fd Pk Coy has taken over PORT MORESBY area from 9 Aust Wksp & Pk Coy.

6 TIMBER PRODUCTION

KARKAR mill is being closed down immediately.

Alley L. Cobb
Lieutenant
Chief Engineer

SECRET
COPY NO 33
7 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART III - INTELLIGENCE RESUME FOR WEEK ENDING 7 SEP 44

GENERAL

RAINFALL NGF AREA

1. August 27.50 inches on 25 days.

Max day fall 6.88 inches on 7 Aug.

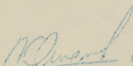
Figures from records :-

	Av	Inches Max	Min	Rain Days Av
Aug	18.85	28.95	11.92	21
Sep	20.63	36.30	15.08	18

2. Average Yearly Progress to end Aug 117.02 ins

Total for 1944 to end Aug 120.72 ins

Expectation for Sep 18 inches on 18 days.


Capt
For CE NG Force

Appx B (2)

SECRET
COPY NO 24
14 Sep 44

NEW GUINEA FORCE
ENGINEER REGIMENT

NO. 10 Force

Engr Works Report and Stores Summary for
14 Sep 44, are attached.

J. Mann

(J. MANN) Brigadier
Chief Engineer

DISTRIBUTION

By G (SD)

PA to C in C
LEQ
Adv LEQ
File

Copy

1
2
3 - 4
5

By CE HQF

CRE 3 Aust Div
CRE 5 Aust Div
5 Aust CRE (wks)
48 Aust DCRE (wks)
53 Aust DCRE (wks)
OC 51 /d Pk Coy
2/1 Aust CRE Forestry
1 Aust CRE NG Forestry
CRE 1 Aust Water Tpt Bp
E in C
DE in C
CE First Aust Army
Aust Engr 10 GRQ
File
War Diary
Spares

Copy

6
7
8
9
10
11
12
13
14
15 - 16
17 - 18
19 - 20
21
22
23 - 25
26 - 31

SECRET
COPY NO. 24
14 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART II WORKS

1. Detailed progress is submitted fortnightly.

2. New works approved.

TOHOKINA

- (1) Acen temp Corps Hq. - 1/60 x 30, 5/50 x 20, 2/20 x 20, and 3/15 x 15 in addition to 2/48 x 20 to be erected by US Engrs for GOCs qrs and office and "A" Mess. Q.35 of 12 Sep 44.

3. New works commenced.

LAE

- (1) NG Provosts Det cells - 5 Sep 44, EDC 13 Sep 44.

4. Works completed.

LAE

- (1) Acen at NGF for 19 L of C Sigs - 8 Sep.

MOROSBY

- (1) Extn HT Retic to Frt Wksp - MURRAY Bks - 8 Sep 44.

5. GENERAL

LAE

- (1) LIBERTY Wharf - approaches completed.
(ii) Landing Craft Ramp MILFORD HAVEN - 50%
(iii) FSD - NADZAB - 63% - EDC 22 Sep.
(iv) OR's Club - 80%
(v) 5000 cu ft Refrig AACs - 20% - EDC 25 Sep.
(vi) 2/7 AGM AAMUS qrs - complete except Elec light and hot water service.
(vii) Output 2 sawmills - 174,000 s ft for week.

NADZAB

- (1) 2/11 AGM AAMUS qrs 80% - EDC 15 Sep.
(ii) 2/11 AGM installations and Acen - 90%
(iii) Power and lighting - 80%
(iv) KAR KAR Sawmill - output 71919 s ft for week -
Total output 115,800 s ft.

Full - 1/10/44
LAE.
For CE NG Force.

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

SECRET
COPY NO 24
14 SEP 44

PART II - ENGINEER STORES POSITION AS AT 13 SEP 44

1	<u>SHIPMENTS EX AUST</u>	<u>Tons</u>	
	(a) <u>Receipts</u>		
	NIL		
	(b) <u>En Route</u>		
	MADANG ex SYDNEY (BUNGARBE)	10 (M)	General
	(c) <u>Awaiting Shipment</u>		
	LAE ex SYDNEY (J S MORETON)	3800 (M)	Cement, corr iron, general
	" " " (CAMBRIA SALVA { LIGHTERS AB 1283 AB 1284 AB 1288 }	250 (M)	
	" " " "	260 D.	Corr iron
	" " BRISBANE	2 (M)	General
	MORSEBY ex BRISBANE	196 (M)	Cement
2	<u>INTRA NEW GUINEA</u>		
	(a) <u>Receipts</u>		
	LAE ex MILNE BAY (J KIMBALL)	600 DW	
	" " MORSEBY (ORMISTON)	12.5 DW	5000 a ft refittg
	" " BUNA (AS 60)	0.5 DW	Transformer
	" " MADANG (F PEATE)	3 DW	Winch
	" " FINSCHHAFFEN (AS 55)	7 DW	Spare parts
	(b) <u>En Route</u>		
	LAE ex BUNA (AK 96)	52 (M)	General
	(c) <u>Awaiting Shipment</u>		
	LAE ex BUNA (J A MURROE)	2152 (M)	Bridging, mech plant, general
	" " MORSEBY	916 (M)	General
	MADANG ex BUNA (J A MURROE)	342 (M)	Mech plant
	" " LAE	238 (M)	For RAE 5 Div
	" " "	50 (M)	" 5 Army Tps Coy
3	<u>SHIPMENTS TO AUST</u>		
	(a) <u>Shipped</u>		
	SYDNEY ex LAE (FORT AMSTERDAM)	2 (M)	Cedar logs
	MELBOURNE ex LAE (FORT AMSTERDAM)	75 (M)	Coconut logs
	(b) <u>Awaiting Shipment</u>		
	NIL		

G. Parsons Lt
for Brigadier
Chief Engineer

W.D.

Appx B (3)

SECRET
COPY NO 25
21 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 21 Sep 44, are attached.

J. Mann
(J MANN) Brigadier
Chief Engineer

DISTRIBUTION

By G (SD)

Copy

PA to C in C
LHQ
Adv LHQ
File

1
2
3 - 4
5

By CE NGF

Copy

CRE 3 Aust Div
CRE 5 Aust Div
5 Aust CRE (Wks)
48 Aust DCRE (Wks)
53 Aust DCRE (Wks)
OC 51 Pd Pk Coy
2/1 Aust CRE Forestry
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Op
E in C
DE in C
CE First Aust Army
Aust Engr LO GHQ
File
✓ War Diary
Spares

6
7
8
9
10
11
12
13
14
15 - 16
17 - 18
19 - 20
21
22
23 - 25
26 - 31

PART II - PROGRESS OF WORKS

SERIAL	PRIORITY	WORK	DATE COMPLETED	PERCENTAGE COMPLETE	EDC	DATE OF REPORT	UNIT EXCUTING	REMARKS
				22.222222				
E		HOSPITALISATION						
		(i) 2/788 AGH-BUSU Water Pt-Nat. susp Br	2Aug	—	11Sep	15Sep	20 Fd Coy	Complete
		" " " " " Pipe line	12Aug	—	20ct	"	"	"
		(11) AANWS - Kit. Ablut etc	25Jul	—	18Sep	"	"	Flooring to complete
		(111) 2/7 AGH - 500 lb Ice Plant	6Sep	—	"	"	8 A Tps	linor adjustments to prime mover
		OTHER WORKS						
		(i) EG Sigs Bldg - Hardstandings	6Jul	—	?	"	58 Fd Pk	No work in period
		(11) Qrs Club	20Jul	—	20Sep	"	8 A Tps	"
		(111) ANCAU - SS 6/80 x 20 Hnts	26Jul	—	?	"	10 Fd Coy	Concreting floors
		(iv) 19 L of C Sigs - Prefabricating Hnts	24Jul	—	?	"	58 Fd Pk	"
		" " " " Recreation Hut	12Aug	—	?	15Sep	8 A Tps	Labour diverted higher priority
		" " " " Accn NGF	28Sep	—	8Sep	23Sep	"	Complete
		NGF Wireless Op Bldg	12Sep	—	30Sep	15Sep	"	Wk
		(v) LAE Power House-277 KVA Gen Set	17Aug	—	?	"	"	EDC dependant on concrete Fdn
		(vi) Detention Hts	31Aug	—	30Sep	"	"	"
		(vii) L.S. Press Accn	24Aug	—	?	"	38 AWC	"
		(viii) Pot Refill Pt - ALE E Wsep	2Aug	—	20Oct	"	8 A Tps	Dependant Labour
		(ix) Scumills		CONTINUOUS	-	"	2/3 For Coy	351,400 sup ft in period
A		LADANG AREA						
		ARTICLES						
		(1) Taxiways and Dispersal Areas	14Aug	—	30Sep	"	2/1 R C C	"
		(11) Control Tower - LADANG Strip	23Sep	—	20Sep	"	2/4 Fd Sqn	In use
B		EDS & RES						
		(1) MILLIAT Rd. print only			-	"	AE Pl 55 Fd Pk	"
		(11) Br LADANG - ALEX Rd	28Aug	—	21Sep	"	8 Fd Coy	"
		(111) Br NAGADA Rd	4Sep	—	15Sep	"	5 Fd Coy	"
E		HOSPITALISATION						
		(1) 2/11 AGH - Wards etc (600 Bed	4Jul	—	?	"	8 Fd Coy	Minor alterations and drainings
		(11) " " AANWS Qrs Less etc	17Aug	—	17Sep	"	2/4 Fd Sqn	to complete
		(111) CCS ALEX - Op theatre	20Aug	—	?	8Sep	4 Fd Coy	Work ceased

PORTNIGHTLY RESUME BY CHIEF ENGR NG FORCE

SECRET
COPY NO. 25
21 Sep 44 Page 3

PART II PROGRESS OF WORKS

SERIAL	PRIORITY	WORK	DATE COMMENCED	PERCENTAGE COMPLETE	E D C	DATE OF REPORT	UNIT EXECUTING	REMARKS
5		<u>OTHER WORKS</u> (1) Water Supply - Development (11) Electric Power & Lighting (111) Sawmill KAR KAR	20Aug 8Jul 19Jun	100 100 CLOSED	? ? 12Sep	15Sep " "	2/4 Fd Sqn 8 Fd & 55 Fd Pk 2/2 For Coy	Addl 10,000 gal storage 2/11 AGH making total 20,000 gals Output to 12 Sep 49,346 sup ft total output 365,146 sup ft.
6		<u>TOROKINA</u> (1) Base constr						No report

WORKING PARTIES SUPPLIED RAB DURING PERIOD

SECRET

COPY NO. 25

21 Sep 44

Page 4

AREA	TROOPS		NATIVES		Av Hours available		Remarks
	Requisitioned Man Days	Supplied Man Days	Requisitioned Man Days	Supplied Man Days	Troops P/Day	Natives P/Day	
MORESBY	1194	1104	3820	3672	7½	7½	Fortnight ending 15 Sep 44
WAW (incl Rd)	69	69	681	681	7½	7½	" " " " "
LAE	2101	210	365	365	7½	7½	" " " " "
MADANG	-	-	1380	1033	-	6	" " " " "
TOTALS	1673	1383	6246	5751	7½	7	" " " " "

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

SECRET
COPY NO 25
21 SEP 44

PART II - ENGINEER STORES POSITION AS AT 20 SEP 44

1. SHIPMENTS TO AUST

(a) Receipts	Tons	Remarks
LAE ex BRISBANE (DUMTROON)	1.5 DW	
(b) En Route		
LAE ex SYDNEY (J S MORETON)	3817 (M)	Maintenance
MADANG ex SYDNEY (DUNCAN)	10 (M)	General
(c) Awaiting Shipment		
MORSEBY ex SYDNEY (BANG HANG LEONG)	200 (M)	
MORSEBY ex BRISBANE	196 (M)	Cement, general
LAE ex BRISBANE	151 (M)	Bridging eqpt
" " SYDNEY	1500 (M)	General
" " " (CALIBRIA SALVA)	250 (M)	
LIGHTERS AB 1283)		
1284)	260 (M)	Corr iron
1288)		

2. INTRA NEW GUINEA

(a) Receipts		
LAE ex MILNE BAY (J KIMBALL)	35 DW	General
" " " " (DULCIE)	5.5 DW	
LAE ex BUNA (AK 96)	18 DW	
(b) En Route		
LAE ex MADANG (AK 94)	3 c/s JAP explosives for training	
MADANG ex LAE (DULCIE)	117 DW	General
(c) Awaiting shipment		
LAE ex MORSEBY	916 (M)	
LAE ex BUNA (J A MUNROE)	2152 (M)	
MADANG ex BUNA (SEAMAN KNAPR)	342 (M)	Unit war eqpt

3. SHIPMENTS TO AUST

(a) Shipped	NIL
(b) Awaiting Shipment	NIL

4. FIRE ON J S MORETON

J S MORETON for LAE (3817 tons M engr stores) is advised as on fire at HACKAY GLD. This vessel is carrying stores earmarked for use at HOLLANDIA and BOUGAINVILLE (transhipped at LAE).

5. STORES FOR HOLLANDIA AND BOUGAINVILLE

Shipments are in course of preparation at RAE dump LAE for HOLLANDIA and BOUGAINVILLE. Exact tonnages to be shipped are not yet known.

6. SMALLCRAFT BREAKDOWN

AK 94, carrying JAPANESE demolition explosives for training RAE units at LAE has broken down en route.

J. J. Parsons
Brigadier
Chief Engineer

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART III - INTELLIGENCE RESUME FOR WEEK ENDING 21 SEP 44

GENERAL

CRAWLER CRANES

1. To extricate a crawler crane that has become bogged in mud or deep sand the following simple method may be of interest, as it may not immediately occur and units which have not had much experience of this type of crane.
 - (a) Slew the jib so that it lies along the same longitudinal axis as the tracks, and lower the jib to an angle of approximately 45°.
 - (b) Make fast the lifting hook to a heavy lorry, bulldozer, or any object beyond the lifting capacity of the crane.
 - (c) Operate the hoist motion, which will commence to overturn the crane and so raise the rear portion of the tracks in the air.
 - (d) Place any suitable timber under the lifted track and lower the crane onto the timber.
 - (e) Slew the jib through 180° and repeat the operation so that the crane will be standing on timber clear of the mud.
 - (f) Lay whatever may be necessary to travel the crane to firm ground.
It is strongly recommended that the greatest care be exercised when this method is used to avoid any structural damage to the crane. It should be undertaken only when supervised by an officer.

(COEQ MIS No 13)

2. LOADING VEHICLES INTO LANDING CRAFT

In the main the troops taking part in the initial assault on the NORMANDY coast displayed a high standard of training in loading their vehicles into landing craft. Not all the follow up units have displayed the same standard. Any idea that a standard lower than the best can be accepted for loading is completely erroneous. In all amphibious operations speed in the build up of the force will be a factor of vital importance. It will only be possible to keep up to the loading timetable if the technique of loading vehicles into the landing craft has been mastered, and if men are thoroughly skilled in the use of hand signals laid down for the purpose. Constant practice in the use of these signals both by day and by night, form an integral part of training. Neglect of this aspect of training cannot be excused on any grounds, and must be carried out and perfected by units of reserve formations, as well as by units earmarked to take part, whether early or late, in an amphibious operation. In short, training in loading vehicles into landing craft is just as important as, for example, road discipline, or vehicle maintenance.

NOTE: The hand signals referred to have been fully described in ATM (AUST) No 24 Para 15.

(Current Reports from Overseas No 43)

3. BEACH LIGHTING BY BALLOONS

A test was carried out at No 1 Combined Training Centre of lighting the Beach Maintenance Area by clusters of lights suspended from balloons.

It was decided to fly three balloons at 125 ft, each suspending a cluster of eight 150 Watt bulbs at 75 ft, the balloons to be sited 120 yds apart. All three clusters were lit by one Kilowatt lighting set mounted in one 15 cwt truck.

The result was excellent - approximately 360 yds of beach was sufficiently well lit to enable normal work to be carried on.

Intention of tests was to ascertain the following:-

- (a) The best height to fly the cluster.
- (b) The best height to fly the balloon.
- (c) The area of the beach reasonably lit by the cluster at varying heights.
- (d) The number of clusters required for a given length of beach.

EQUIPMENT USED:

- (a) One 5 Kilowatt lighting set.
- (b) Two yard arm reflectors complete with eight 50/75 volt/watt lamps.
- (c) Insulated cable. 150
- (d) Detachable Suspension brackets.
- (e) Balloon winch (admiralty type) and cable (K.B. 1A.)
- (f) Rover Balloons.
- (g) One 15 cwt lorry carrying the lighting set.

The conclusions to the test were :-

- (a) The best height to fly the clusters is 75 to 100 ft with balloons 125 to 150 ft respectively.
- (b) Distance between balloons should be 120 to 150 yds.
- (c) Each balloon lighting set must be complete and mobile.
- (d) Three clusters will light 360 to 450 yds of beach.
- (e) The turning out of lights on the approach of enemy should be controlled by the AARG.

(DCO (I) Bulletin No 5).

4. BEACH RECOGNITION SKETCHES

To assist small boat crews to recognise the landing beach in the SANSEAPOR area, sketches showing a distant and a close view were prepared from air photographs. These proved of considerable assistance.

5. DISPOSAL OF UNEXPLODED BOMBS AND PROJECTILES

The following are extracts from the report on the work of a US Bomb Disposal Officer at TARAWA :-

"During the period of 29 days, the unit disposed of 974 Allied and Enemy projectiles, bombs and land mines, as well as countless mortar bombs and grenades which had failed to explode. Unexploded shells and bombs were all over the island, and the unit had to cope with most difficult conditions, for although the island was small, it swarmed with men engaged on the reconstruction of the airstrip. The unit started at one end of the island, and, systematically as possible, rendered unexploded bombs and shells safe, and then collected them in piles for later sea disposal. This was accomplished by taking them ten miles out to sea in light landing craft. The small size of the island prevented demolition on the spot."

This shows how important it is in combined operations, particularly under conditions where demolition in situ is not permissible, for bomb disposal parties to be trained in the recognition and rendering safe of all forms of Allied and Enemy military, naval and air

W. W. W. Capt
FOR CE NG Force.

Appx B (4)

SECRET
COPY NO 27
28 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

HQ NG Force

Engr Works Report, Stores and Intelligence
Summaries for 20 Sep 44, are attached.

Mann
(J MANN) Brigadier
Chief Engineer

DISTRIBUTION

By G (SD)

PA to C in C
LHQ
Adv LHQ
File

Copy

1
2
3 - 4
5

By CE NGF

CRE 3 Aust Div
CRE 5 Aust Div
5 Aust CRE (Wks)
48 Aust DCRE (Wks)
53 Aust DCRE (Wks)
OC 51 Fd Pk Coy
2/1 Aust CRE Forestry
1 Aust CRE NG Forests
CRE 1 Aust Water Tpt Cp
E in C
DE in C
CE First Aust Army
Aust Engr LO GHQ
File
War Diary
Spares

Copy

6
7
8
9
10
11
12
13
14
15 - 16
17 - 18
19 - 20
21
22
23 - 25
26 - 31

SECRET
COPY NO. 27
28 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART II - WORKS.

1. Detailed progress is submitted weekly.
2. NEW WORKS APPROVED.
NIL.
3. NEW WORKS COMMENCED.
LAE
(1) 43 FOD - 2 Huts, 150 and 120 x 50 - 20 Sep EDC 4 Oct.
4. WORKS COMPLETED.
LAE
(1) FSD NADZAB. 1/180' x 50' Hut, Kit, Mess and Fence
18 Sep 44.
(ii) 2/7 AGH - 500 lb ice plant - tests complete. Plant
running 20 Sep 44.
MADANG.
(1) MADANG - ALEX Rd - 12 mile Bridge 24 Sep 44.
5. GENERAL.
LAE
(i) Liberty Wharf - Main wharf 20%.
(ii) Floating Dock - LABU - 49%.
(iii) OR's Club - 93% - EDC 23 Oct 44.
(iv) 5000 cub ft refrig AACB - 23%.
(v) Sawmill output 146,170 S ft for week.

for CE NG Force.
Maj.

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

SECRET
COPY NO 27
28 SEP 44

PART II - ENGINEER STORES POSITION AS AT 27 SEP 44

1.	<u>SHIPMENTS EX AUST</u>	<u>Tons</u>	<u>Remarks</u>
(a)	<u>Receipts</u> NIL		
(b)	<u>En Route</u> BOUGAINVILLE ex SYDNEY (JOE HARRIS)	350(M)	Timber
(c)	<u>Awaiting Shipment</u> LAE ex BRISBANE (J S MORETON or J OLIVER)	?	
	" " "	153(M)	Bridging
	" " SYDNEY	1360(M)	Corr iron, cement general
	" " " (CAMBRIA SALVA & 3 Philippine lighters)	510(M)	Corr iron, general
	MORESBY ex BRISBANE	196(M)	Cement
	" " SYDNEY (BANG HENG LEONG)	200(M)	
2.	<u>INTRA NEW GUINEA</u>		
(a)	<u>Receipts</u> KADARAT ex LAE (DULCIE)	117 DW	
(b)	<u>En Route</u> LAE ex BUNA (SEAMAN A KNAPP)	2298(M)	Mach plant, general
	" " MORESBY (J BARTRAM)	713(M)	General
(c)	<u>Awaiting Shipment</u> LAE ex BUNA	830(M)	Timber
	" " MORESBY	214(M)	
	BOUGAINVILLE ex LAE	457(M)	
3.	<u>SHIPMENTS TO AUST</u>		
(a)	<u>Shipments</u> NIL		
(b)	<u>Awaiting Shipment</u> WAGGA ex LAE	1(M)	Cam eqpt
	SYDNEY ex LAE	2.5(M)	NEW GUINEA timber

for J. Parsons Lt
Brigadier
Chief Engineer

SECRET
COPY NO 27
28 Sep 44

NEW GUINEA FORCE
ENGINEER WEEKLY RESUME

PART III - INTELLIGENCE RESUME FOR WEEK ENDING 28 SEP 44

GENERAL

FLOATING PILE DRIVING MACHINE

1. The following notes and Appx A hereto describe a Floating Pile Driving Machine which was used very successfully in wharf and jetty construction at MADANG.
Rig used for wharf construction in MADANG Harbour consists of tubular steel 34 ft frame with double drum winch mounted on two 50 ton well type barges.
Crew for driving and placing crossheads - 1 NCO and 8 Sappers.

Rate of construction - one 4 pile bent complete per shift.

Note that space is provided at rear of winch for trailer compressor.

(2/4 Aust Fd Sq)

2. REPORT ON VALENTINE BRIDGE LAYER IN ITALY

The following notes from an operational report on the scissors bridge mounted on the Valentine tank are of interest.

(a) TACTICAL

The scissors bridge has been found to be a very useful piece of equipment provided that its limitations are realised.
It has been used on several occasions to bridge gaps in roads due to enemy demolition, at a time when bulldozing and Bailey bridging could not be attempted. It was also used at one location to bridge a river 50 ft wide and about 6 ft deep in the centre. Although the bridge was three quarters submerged, it enabled a complete regiment of Shermans and Priests to cross the obstacle. The bridge has NOT been launched under direct enemy fire, and on all occasions there has been an officer outside the tank directing the driver.

(b) LIMITATIONS

The driver has such poor visibility, that unless he is assisted by someone outside the tank, he may, without being aware of it, do some of the following things.

- (i) Try to launch the bridge when the tank is as much as 20 degrees from right angles to the gap.
- (ii) Try and launch on uneven ground.
- (iii) Continue launching when the bridge has fouled the ground whilst opening. Unless he has outside assistance the chance of success is about 1 in 5.

(c) LIMITATIONS OF THE GROUND

It is not possible to launch the bridge on uneven ground. For the launch to be successful there must be a strip of ground about twenty yards long either level or at a uniform grade, and free from mounds and rocks.

Para 2 (c) Contd

When the bridge, during launching, has reached the vertical position and begins to open, the clearance of the ground is only about one foot, even under the most favourable conditions. If the ground is soft or at all bumpy, the bridge when opening will almost certainly foul the ground and jamb. If the ground is uneven it may prove impossible to uncouple the tank from the bridge because the cables are still taut.

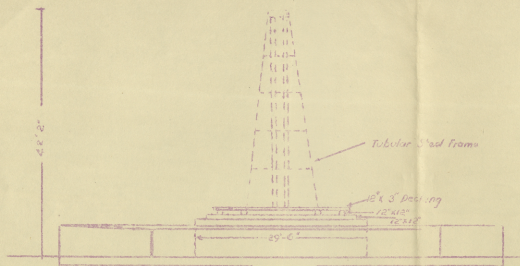
(d) MAINTENANCE OF THE BRIDGE IN USE

Shermans passing over the bridge do not improve it, and care must be taken to ensure that the bridge is not too badly twisted, or it will be impossible to pick it up again. After use the bridges had nearly always to be welded and parts straightened.

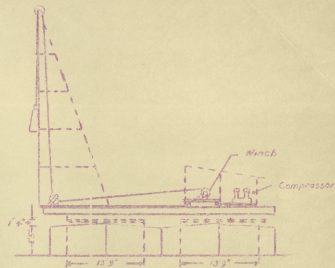
(AFV Notes No 19)

[Signature]
Capt
for CE NG Force

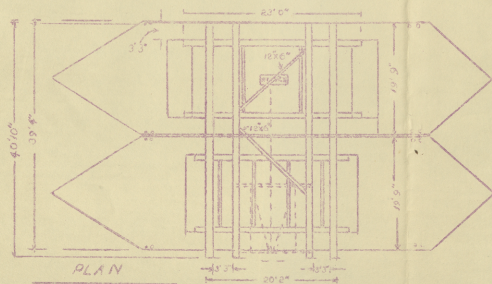
APPENDIX 'A'



FRONT ELEVATION



SIDE ELEVATION

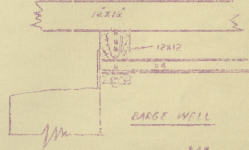


FLOATING PILE FRAME USED AT MADANG

Scale: 1" = 10'



DETAIL OF DECKING



DETAIL AT 'A'
Scale: 1" = 1'