

Series: AWM95
Australian Army commanders' diaries
[Vietnam]

Detachment, 1 Topographical
Survey Troop

Item number: 5/1/52

**Item: A Section 1 Topographical
Survey Troop**

Operational Report no. 51

[photocopy]

[1-31 Jul 1970]

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AUSTRALIAN MILITARY FORCES
VIETNAM

A Sect 1 Topo Svy Tp,
AFPO 4.
G.P.O. SYDNEY. 2890

1 Aug 70

Distribution below;

OPERATIONAL REPORT No 51
Covering period 1 - 31 Jul 70

PART 1 - G MATTERS

GENERAL

1. The Unit remained in 1 ATF Base.

SURVEY SECTION

2. a. Field Work

(1) The lack of field experience in Grades 1 and 2 of tradesmen became evident during the month when a variety of field work was undertaken. Instruction and revision had to be given in the following subjects:

- (a) eccentric instrument, signal set ups and computation;
- (b) placing, observing and purpose of recovery marks;
- (c) recovery of a station from recovery marks;
- (d) subtense bar observations and calculations;
- (e) how to select and establish photo control points (PCP);
- (f) helio operation;
- (g) tellurometer observation;
- (h) theodolite handling;
- (i) booking procedures.

(2) Renovations were carried out at 3 trig stations and 3 beacons were erected. PCP's were established round the Nui Dat feature to allow two stereo models for the NUI DAT 1:10,000 to be plotted by stereotape instead of sketchmaster because of the relief.

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*AD (1)
See above for
equipment
See above for
in equipment
utilization*

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2.

(3) Angular and distance observations are being planned and carried out so that no station will have unchecked co-ords.

(4) Plans were produced for 4 accident investigations.

b. Compilation

(1) L8015 Revision Programme Sheets 6420-IV-NW and 6429-IV-SW were despatched to HQ Svy Regt thus completing the revision programme. A proof of 6429-I-NW was edited and returned to HQ Svy Regt.

(2) Revision of DUC THANH (SPECIAL) 1:5,000 continues.

c. Records

The loose leaf system of recording has been discontinued and field books are now used. All traverses that have been observed are being plotted for the trig diagram folder. The photo library was maintained.

d. F24 Photography

Several runs of photography were flown to record land cleared areas and to train the new photographer.

e. The breakdown of man hours is shown below:

<u>Task</u>	<u>% of Time</u>
Records	20
L8015 Revision Programme	35
Accident Plans	5
Trig Renovation, obs, comps etc	40

CARTOGRAPHIC SECTION

3. a. Map Overlays

(1) The following overlays are continuously updated:

- (a) topographic;
- (b) mine;
- (c) en installations.

b. Charts

6 miscellaneous charts were drawn.

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3.

c. Compilation

(1) The major effort of the section was involved in drawing new civil access boundaries for printing. These were published at 1:50,000 as shown in Annex B. An edition in Vietnamese is also being prepared for printing. Repromat for the 1 ATF Special 1:100,000 overprint will also have to be changed.

(2) Revision of the NUI DAT 1:10,000 has been recommenced and is being carried out by the carto section supervised by the survey section.

d. Man Hours

The breakdown of man hours is shown below:

<u>Task</u>	<u>% of Time</u>
Updating overlays	20
Charts	10
Civil Access Compilation	55
NUI DAT (Special) Compilation	15

PHOTOGRAPHIC SECTION

4. a. 35mm film was processed for the following units:

- (1) CA
- (2) Div Int
- (3) Psyops
- (4) 198 Wks Sect
- (5) Battle Int

b. Photographic support was provided for three accident investigations.

c. Mosaics were printed for stock. 750 prints were produced from the enlarger and 260 bromide contacts were produced.

d. The breakdown of man hours is shown below.

<u>Task</u>	<u>% of Time</u>
Taking F24 photos & processing	10
Support of survey sect	40
" of carto sect	10
" of other units, accidents etc	40

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4.

REPRODUCTION SECTION

5. a. Operational Tasks

- (1) Map stocks were overprinted for 2R4R, 7R4R and 8R4R.
- (2) Two Annexes for Op Instrs were produced for 1 ATF.
- (3) The quarterly reprint of en installations and mines was completed.

b. Mapping Tasks

The following were reprinted for stock:

- (1) Land Clearing Overprint at 1:100,000.
- (2) 1 ATF Special Overprint on 1:100,000 maps.
- (3) Civic Action Overprint at 1:100,000.
- (4) Civil Access on 1:50,000 maps.

c. 10,400 impressions were pulled during the month. The average run was 200.

d. The dyeline machine continued to be used by other units.

MAP DISTRIBUTION

6. a. The following maps were issued during the period:

<u>Map Series</u>	<u>Scale</u>	<u>Quantity</u>
L8020 (Picto)	1:25,000	561
L8015	1:25,000	2,555
L7014	1:50,000	3,941
L607	1:100,000	405
JOG A	1:250,000	59
Miscellaneous		80
Specials	1:5,000	31
	1:10,000	75
	1:12,500	4

TOTAL FOR MONTH 7,711

b. 21 mosaics were issued.

c. 8 dyelines of sketchmaps were issued.

CIVIL AFFAIRS

7. No survey support was supplied for CA projects.

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5.

PART 2 - A MATTERS

NOMINAL ROLL

8. See Annex A.

9. 55376 Cpl L A PATTERSON who holds the posting of Sgt Dtmn Litho is due to RTA on 27 Aug 70. The unit was advised by CEN/ARMYRED CAR/D6/22463 of 192305Z Jul 70 that his replacement 217410 Cpl J D McDONALD would not be arriving until 23 Sep 70. *Is this correct*

10. The following member departed for AUSTRALIA on the date shown:

216481 Cpl G E GRAHAM 9 Jul 70

11. The following member arrived from AUSTRALIA on the date shown:

2783716 Spr E G HILL 2 Jul 70

12. The following are due for RTA on the dates as shown:

AUG : 55376 Cpl L A PATTERSON 27 Aug 70

SEP : Nil

OCT : 54378 Cpl B E PARKER 8 Oct 70

39748 Spr G S DOWD 8 Oct 70

1201787 Spr D S McALLAN 15 Oct 70

3411521 LCpl G C MURRAY 15 Oct 70

1200512 Cpl K J GALLAGHER 22 Oct 70

Posting orders have not been received.

PART 3 - Q MATTERS

13. A new dyeline machine was obtained as the old one had been declared BER. The old machine lasted 8 months.

14. When printing the civil access maps, a wash was used which required a lot of ink and extender to be used. The fumes were that bad that respirators had to be worn. The whole aspect of ventilation in the printing room is being examined by the DCRE.

15. The tellurometers were field tested and all found to need minor adjustment in workshops. They were again field tested and some required more adjustment. A final field testing has yet to be carried out.

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6.

PART 4 - EQUIPMENT UTILISATION

16. The table below shows the number of days per month on which the major items of equipment were used over the past 5 months:

<u>ITEM</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>
Process Camera	13r	22	16	13	12
Enlarger	21	27	18	14	17
35mm Camera	*	14	9	11	9
F24 5½" Aerial Camera	*	*	4	1	2
F24 8" Aerial Camera	*	*	2	-	1
Dyeline Machine	20	27	20	22	25
Silk Screen Printing Press	26	27	20	24	27
Stereoscope - No 1	5	12	4	3	3
No 2	-	-	-	-	-
Sketchmaster	24	24	10	21	16
Kern Level	9	15	3	-	6
Wild T2/56 Theodolite - No 1	5	-	1	5	17
- No 2	4	-	-	5	7
Tellurometer Set 1	-	-	1	-	6
Set 2	-	-	1	.	5
Set 3	-	-	1	-	5

* No records held.

PART 5 - MANPOWER UTILISED ON TECHNICAL TASKS

17. Annexures C, D, E, F and G show the % of available time that is spent on technical tasks by the unit and by different sections of the Unit. Technical tasks are defined loosely by excluding tasks such as GD's, R & R, courses, sickness, picquet, etc.

18. In compiling the graph for the whole unit the following were not considered; OC, 2IC, WO1, CQMS, CLERK, STOREMAN, DRIVER and COOK. Available time was considered as being, for each man, 6 days/week at 7½ hrs/day. Members are required to act as duty sgt, mapmarker in CP, picquet, secretary of unit canteen, etc in addition to the normal working day of 7½ hrs.

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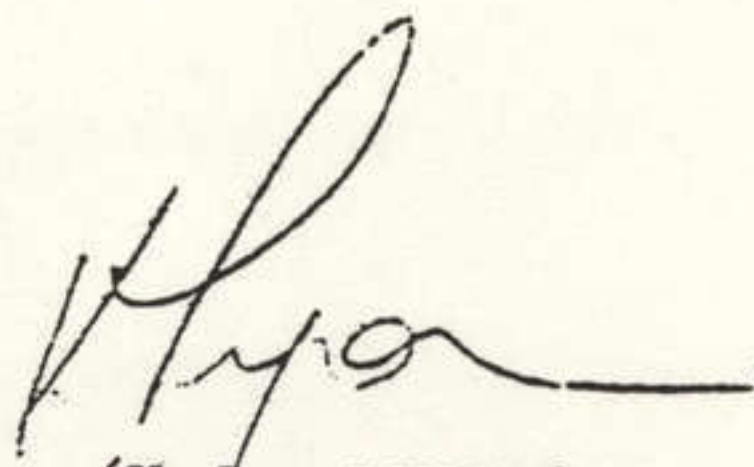
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7:

19. The various sections comprise the following numbers:

Survey section	- 6
Cartographic Section	- 5
Printing Section	- 2
Photo Section	- 1

The numbers in each section can be changed to meet the workload. The most common is for the Printing Section to be increased to three.


(K.J. LYONS)
Capt
OC

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Annex A to
OP Report No 51

NOMINAL ROLL

17082	Capt	K J	LYONS	
4719812	2Lt	J M	WHITBURN	
42180	WO1	R	McMILLAN	WO1 Svyr Topo
1202084	Spr	J T	WRIGHT	WO2 Platemaker Litho
53004	SSgt	I J	HASTINGS	TQMS
18644	Sgt	M	NEIL	Sgt Dtmn Topo
55376	Cpl	L A	PATTERSON	Sgt Dtmn Litho
42804	Sgt	D G	COLLINS	Sgt Svyr Topo
1200512	Cpl	K J	GALLAGHER	Sgt Svyr Topo
54378	Cpl	B E	PARKER	Cpl Clerk Admin
39535	Spr	R G	BARWALD	Cpl Dtmn Litho
2783716	Spr	E G	HILL	Cpl Photographer Litho
1202141	Spr	M J	COLLINS	Cpl Storeman Tech
1200238	Cpl	P E	FAITHFULL	Cpl Svyr Topo
39092	Cpl	I R	CAMPBELL	Cpl Svyr Topo
1201787	Spr	D S	McALLAN	Spr Dtmn Topo
3411521	LCpl	G C	MURRAY	Spr Driver
39332	Spr	B R	APPLEFORD	Spr Platemaker Litho
2276420	Spr	J F	WALKER	Spr Svyr Topo
39748	Spr	G S	DOWD	Spr Svyr Topo
3795975	Spr	A M	WALLIS	Pte Cook
55659	Spr	P R	WILLINGTON	Spr Dtmn Topo (theatre supplement)

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